Temperature and Salinity Measurements in the Northwest Passage
Volume 1, March-April, 1982.

W.R. Buckingham, R.A. Lake, and H. Melling

Institute of Ocean Sciences
Department of Fisheries and Oceans
Sidney, B.C. V8L 4B2

1985

Canadian Data Report of Hydrography and Ocean Sciences No. 39

Canada

86-06271

Canadian Data Report Of Hydrography and Ocean Sciences

These reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities.

Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications and the last number issued under each title are published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 38: Index to Publications 1981. The current series began with Report Number 1 in January 1982.

Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Ces rapports servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens.

En général, les rapports contiennent des données brutes ou analysées mais ne fournissent pas d'interprétations des données. Ces compilations sont préparées le plus souvent à l'appui de travaux reliés aux programmes et intérêts du service des Sciences et Levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport n° 1 en janvier 1982.

Canadian Data Report of Hydrography and Ocean Sciences No. 39

1985

TEMPERATURE AND SALINITY MEASUREMENTS IN THE NORTHWEST PASSAGE
VOLUME 1, MARCH-APRIL, 1982.

by

W.R. Buckingham, R.A. Lake, and H. Melling

Institute of Ocean Sciences
Department of Fisheries and Oceans
Sidney, B.C., V8L 4B2

PREFACE

This report is the first of three data reports documenting water property measurements in the Northwest Passage of the Canadian Arctic Archipelago during March and April of 1982, 1983, and 1984. Each report deals with the activities undertaken during one year. Analysis and interpretation of these data appear in a separate technical report.

Copyright Minister of Supply and Services Canada - 1985

Cat. No. Fs 97-16/39 ISSN 0711-6721

Correct citation for this publication:

Buckingham, W.R., R.A. Lake, and H. Melling. 1985. Temperature and Salinity Measurements in the Northwest Passage in March and April, 1982. Can. Data Rep. Hydrogr. Ocean Sci. No. 39: 371p.

TABLE OF CONTENTS

PREFACE ii

TABLE OF CONTENTS iii

ABSTRACT iv

ACKNOWLEDGEMENTS v

1. INTRODUCTION 1

2. PHYSICAL SETTING AND STATION LOCATIONS 4
   - 2.1 Arctic Archipelago 4
   - 2.2 General Bathymetry 5
   - 2.3 Station Locations and Local Bathymetry 5

3. DATA COLLECTION 6
   - 3.1 Instrumentation 6
   - 3.2 CTD Station Procedures 12
   - 3.3 Calibration 13

4. DATA PROCESSING 16

5. DATA PRESENTATION 17

APPENDIX - CTD data index, plots, and listings 21

ABSTRACT

Buckingham, W.R., R.A. Lake, and H. Melling, 1985. Temperature and Salinity Measurements in the Northwest Passage. Vol. 1, March-April 1982. Can. Data Rep. Hydrogr. Ocean Sci. No. 39:371p.

A three-year program of hydrographic measurements was undertaken in the months of March and April between 1982 and 1984 in the Canadian Arctic Archipelago by the Institute of Ocean Sciences of the Department of Fisheries and Oceans. The measurements were in the form of profiles, by Guildline CTD probe, of temperature and salinity as a function of pressure. The activities during each year of the study concentrated on a specific region of the Northwest Passage within the Archipelago. The emphasis in 1982 was on the western portion (M'Clure Strait, Prince of Wales Strait, and Viscount Melville Sound), in 1983 on the central portion (eastern Viscount Melville Sound and Barrow Strait), and in 1984 on the eastern portion (Barrow Strait and adjacent channels). This report discusses the aims of the project, the logistics of the 1982 field work, and summarizes the data acquired during that year in tabular and graphic form.

key words: Arctic Archipelago, Northwest Passage, temperature, salinity.

RÉSUMÉ

Buckingham, W.R., R.A. Lake, and H. Melling, 1985. Temperature and Salinity Measurements in the Northwest Passage. Vol. 1, March-April, 1982. Can. Data Rep. Hydrogr. Ocean Sci. No. 39:371p.

De 1982 à 1984, l'Institut des Sciences Océanographiques du MPO a réalisé un programme triennal de quantifications hydrographiques en mars et avril dans l'archipel Arctique canadien. Ces quantifications ont pris la forme de profils, obtenus à l'aide de sonde CTP Guildline, de températures et de salinités en fonction de la pression. Les activités annuelles ont porté sur une région déterminée du passage du Nord-Ouest de l'archipel. En 1982, on a mis l'accent sur la partie ouest (M'Clure Strait, Prince of Wales Strait, Viscount Melville Sound), en 1983, sur la partie centrale (partie est du Viscount Melville Sound et Barrow Strait) et en 1984, sur la partie est (Barrow Strait et chenaux adjacents). Le présent rapport porte sur les buts du projet, le soutien logistique du travail sur le terrain en 1982 et les données recueillies cette année-là, présentées sous forme de tableaux et de graphiques.

Mots-clés: archipel Arctique, passage du Nord-Ouest, température, salinité.

ACKNOWLEDGEMENTS

The authors wish to thank various members of the Institute of Ocean Sciences whose diligent efforts helped to make this project a success. In particular thank electronic technicians P. Johnston and A. Koppel, support technicians S. Moorhouse and J. McNeill, and W. Green from the computing section.

1. INTRODUCTION

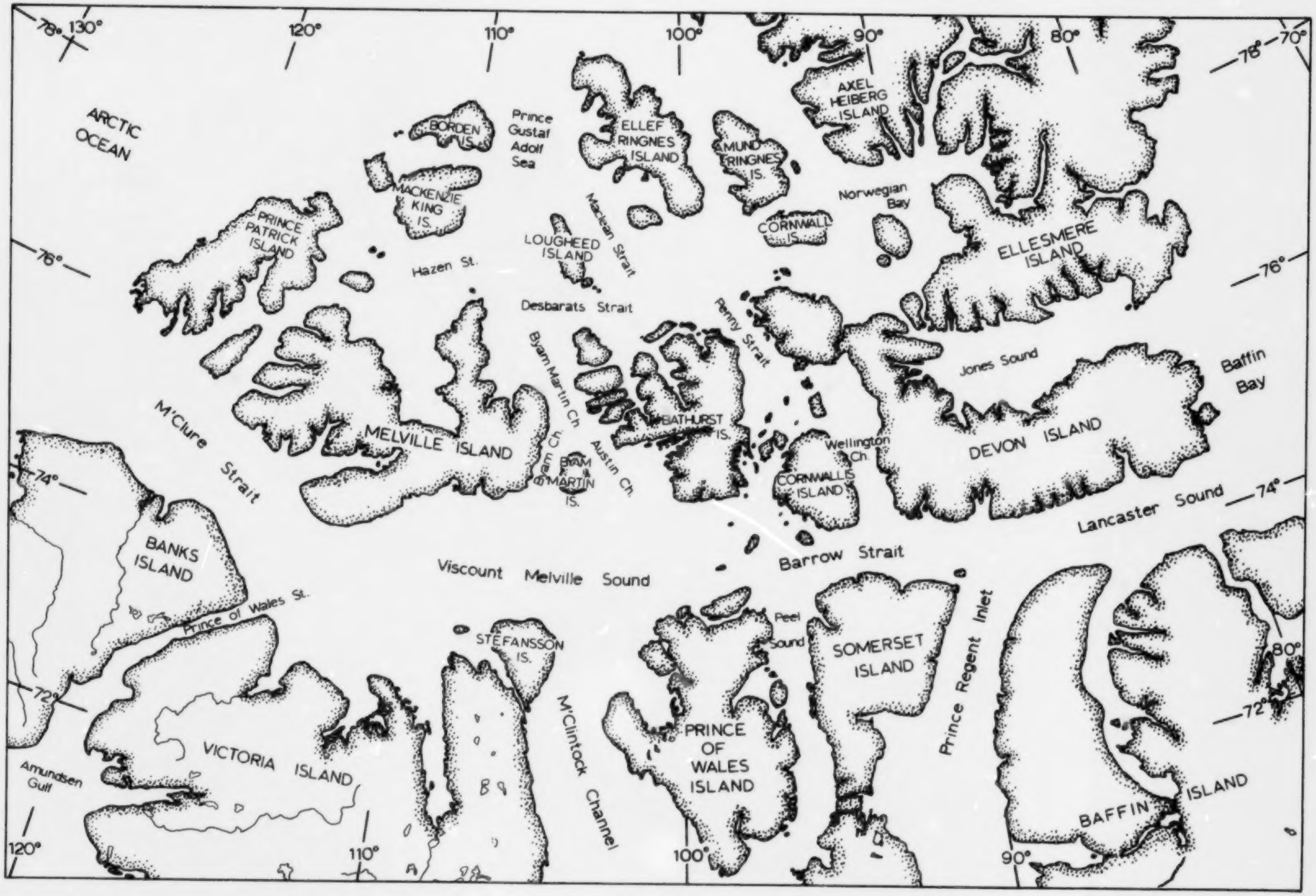
A three-year physical-oceanographic study was undertaken between 1982 and 1984 in the Canadian Arctic Archipelago, centering on the complex of waterways known as the Northwest Passage. The study was carried out by the Department of Fisheries and Oceans at the Institute of Ocean Sciences (IOS). It extended from Amundsen Gulf in the west, through Prince of Wales Strait, M'Clure Strait, Viscount Melville Sound, Barrow Strait, and Lancaster Sound to Baffin Bay in the east (see Figure 1). The study also included the various passageways and basins bordering the Northwest Passage. The overall objective was to gain an understanding of the physical oceanic processes within the defined area of the Arctic Archipelago. Specifically this objective included the following goals:

1) the identification of the magnitude and direction of tidal and non-tidal currents,
2) the description of tidal propagation,
3) the identification of sources and destinations of various water-masses,
4) the identification of the relative importance of physical forces which determine currents and water-mass distribution (e.g. tidal forces, baroclinic forces related to horizontally inhomogeneous distribution of water density and non-tidal barotropic forces related to oceanic and atmospheric circulation),
5) the identification of temporal and spatial variability in current and water-mass distribution. Periods of particular importance are tidal (semi-diurnal and diurnal), seasonal, and interannual. Also of potential importance are singular or non-periodic events such as storm surges,
6) the estimation, to an order of magnitude, of the volume of water transport into and out of the study area and the partition of that transport.

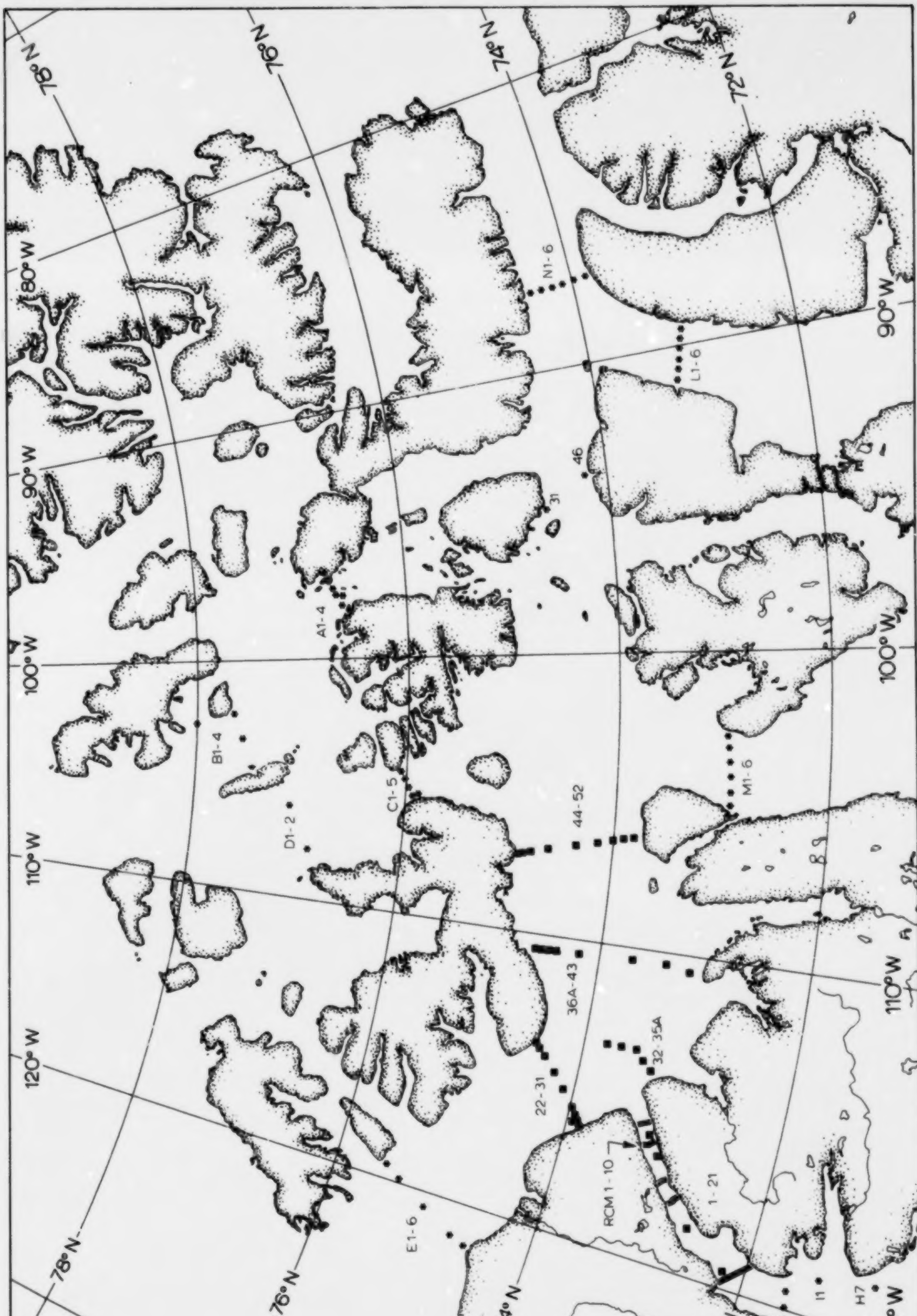
The activities during each year of the study concentrated on a specific region of the Northwest Passage. The emphasis in 1982 was on the western position, in 1983 the central portion, and in 1984 the eastern portion. The field studies were undertaken during the early spring months, at which time the solid ice-cover made a stable platform from which to work.

This report describes the acquisition of water structure information obtained in 1982 as conductivity/temperature/ depth (CTD) profiles and presents the data in final processed form. The main study area comprised the eastern end of M'Clure Strait and the western and middle portions of Viscount Melville Sound. The relevant CTD station locations are indicated by the square symbols in Figure 2. Data reports covering the activities during 1983 and 1984 are being prepared and may be found in Volumes 2 and 3 of this report series.

A related oceanographic investigation undertaken concurrently in the adjacent channel of Prince of Wales Strait was termed the Channel Flow Experiment. The CTD profiles from this study are also included in this report. The CTD stations for the Channel Flow Experiment are denoted in Figure 2 by square symbols or by a series of triple parallel lines (indicating transects), all located within Prince of Wales Strait. A second concurrent CTD field study was undertaken by Arctic Sciences Ltd. under contract to the Ocean Science and Surveys sector of the Department


ARCTIC OCEAN
130°
120°
110°
100°
90°
80°
70°
78°
76°
74°
72°
BORDEN IS.
Prince Gustaf Adolf Sea
ELLEF RINGNES ISLAND
AMUND RINGNES IS.
AXEL HEIBERG ISLAND
Norwegian Bay
MACKENZIE KING IS.
CORNWALL IS.
ELLESMERE ISLAND
PRINCE PATRICK ISLAND
LOUGHEED ISLAND
Maclean Strait
Hazen St.
Desbarats Strait
Penny Strait
Jones Sound
Baffin Bay
Byam Martin Ch.
BATHURST IS.
MELVILLE ISLAND
BYAM MARTIN IS.
Austin Ch.
Wellington Ch.
DEVON ISLAND
M'Clure Strait
CORNWALLIS ISLAND
Lancaster Sound
BANKS ISLAND
Barrow Strait
Viscount Melville Sound
Prince of Wales St.
Peel Sound
STEFANSSON IS.
SOMERSET ISLAND
Prince Regent Inlet
M'Clintock Channel
PRINCE OF WALES ISLAND
VICTORIA ISLAND
Amundsen Gulf
BAFFIN ISLAND

1. A map of the Canadian Arctic Archipelago. The Northwest Passage shipping route will likely be through Lancaster Sound, Barrow Strait, Viscount Melville Sound, and Prince of Wales Strait.


78°N
76°N
74°N
72°N
80°W
90°W
100°W
110°W
120°W
N1-6
L1-6
46
31
A1-4
B1-4
C1-5
D1-2
44-52
M1-6
36A-43
32-35A
22-31
RCM 1-10
1-21
E1-6
F1-4
I1
H7
I3

2. Locations of CTD stations occupied throughout the Arctic Archipelago in March-April, 1982. Square symbols and triple lines indicate stations and transects done by the Institute of Ocean Sciences. Star symbols indicate some of the stations occupied by Arctic Sciences Ltd.

of Fisheries and Oceans. This study is reported by Fissel et al. (1984). Many of the CTD stations occupied during this contract study are indicated in Figure 2 by star symbols.

The study area has not previously been extensively investigated due to its remoteness and to the difficulty of ship operations. The sea surface is completely frozen during most of the year, and is often ice-choked during the short navigation period. Previous oceanographic research in the Arctic Archipelago has been tabulated by Fissel, Knight, and Birch (1984). The earliest significant collection of oceanographic data was accomplished from ships in summer during the 1950's and 1960's. These data were sufficient to delineate the regional water-mass characteristics. The change from classical to modern electronic instrumentation during the 1960's and 1970's coincided with a gradual change from ship-based operations in summer to aircraft and tracked vehicle based operations on sea-ice during spring (February to July). In 1977 and 1978 investigators from the Physical Oceanographic Group of the Canada Centre for Inland Waters completed a number of CTD transects across Viscount Melville Sound, Prince of Wales Strait, and adjacent channels. Current measurements were also made at the same time (Peck, 1978 and Prinsenberg, 1978). Current data across the western end of Viscount Melville Sound were gathered in 1979 as part of the Polargas Project (1979). A number of tidal height measurements were made during 1979 and 1980 as part of the Bridport Inlet studies by I.O.S. The Canadian Hydrographic Service also made extensive tidal height measurements in 1977, and an additional tidal height record was obtained as a part of the Polargas program in 1979.

The present study involved measurements by CTD probe, recording current meters, tide gauges, and meteorological stations. This report deals solely with the CTD measurements. Section 2 describes the physical setting and bathymetry of the study area and the CTD station locations during the 1982 field trip. Section 3 recounts the logistics, equipment used, and the timing of the measurements, while Section 4 deals with the data processing procedures. The data are presented in listings and plots in the Appendix along with a cross-reference table relating station identification to experiment number.

2. PHYSICAL SETTING AND STATION LOCATIONS

2.1 Arctic Archipelago

The Canadian Arctic Archipelago consists of a large group of islands lying on the extensive polar continental shelf of North America (Figure 1). The Archipelago extends roughly 1500 kilometres between the 68° and 82° North latitude and about 2700 kilometres between 60° and 130° West longitude (at 70° North). These islands are bounded to the north and west by the Arctic Ocean and the Beaufort Sea respectively, to the south by the mainland of the North American continent and to the east and southeast by Nares Strait, Baffin Bay, Davis Strait, and Labrador Sea. For convenience, the Archipelago is often divided into three sections from north to south as follows: the Sverdrup Basin lying within the Queen Elizabeth Islands (ie. all islands north of Parry Channel); Parry Channel, consisting of M'Clure Strait, Viscount Melville Sound, Barrow Strait, and Lancaster

Sound; and the "Southern Channels" comprising Amundsen Gulf, M'Clintock Channel, the Gulf of Boothia, and other, lesser, waterways.

2.2 General Bathymetry

The channels and basins throughout the Archipelago are in general substantially shallower than the major adjoining oceanic basins. The continental shelf effectively limits free passage of water to maximum depths of about 450 metres into Sverdrup Basin, to about 380 metres into M'Clure Strait, and to about 360 metres into Amundsen Gulf. To the east, Baffin Bay has depths up to 2300 metres, but the sill in Davis Strait (to the south of Baffin Bay) limits deep water exchange with the North Atlantic to depths of less than 700 metres. Another shallow entrance (50 metres) to the Archipelago from the North Atlantic exists through Hudson Strait, Foxe Basin, and Fury and Hecla Strait in the south. The deepest continuous passage through the Archipelago exists through Parry Channel and has a limiting sill of 125 metres in Barrow Strait. The passageways connecting Sverdrup Basin to the southern channels (M'Clure Strait, Viscount Melville Sound, Barrow Strait, etc.) are in general constricted by shallow sills on the order of 100 metres in depth. South of Parry Channel depths are characteristically shallow (mostly less than 200 metres) with the exception of some deeper areas of greater than 400 metres extending into Prince Regent Inlet from Lancaster Sound.

2.3 Station Locations and Local Bathymetry

The Northwest Passage field study in 1982 concentrated on the western portion of Viscount Melville Sound. The study area was bounded on the north by Melville Island, on the east by the 106° West meridian (approximately), on the south by Victoria Island, the north end of Prince of Wales Strait, and the northeast corner of Banks Island, and on the west by a line transecting the east end of M'Clure Strait between Melville Island and Banks Island. It was intended to carry out a spatially distributed series of CTD casts which would be sufficient for a large scale description of the water structure within the study area. Hence, three transects of CTD measurements were conducted, spanning Viscount Melville Sound such that the water properties of the western, middle, and eastern boundaries of the study area could be well defined (square symbols in Figure 2). In addition, there was one transect from the south side of Viscount Melville Sound at Peel Point extending to the middle of the Sound. LeBlond (1980), among others, has pointed out that the small internal Rossby radius of deformation at high latitudes can lead to very narrow geostrophic currents along a shoreline. Thus, the spacing of the CTD stations along any transect was made smaller near the shore, in order to help delineate any possible narrow baroclinic currents "hugging" the shore.

The positions of the CTD stations for the Channel Flow Experiment in Prince of Wales Strait are also shown in Figure 2 as square symbols and sets of triple parallel lines transecting the strait. There were five cross-channel transects, as well as four "extra" stations, along the length of the strait.

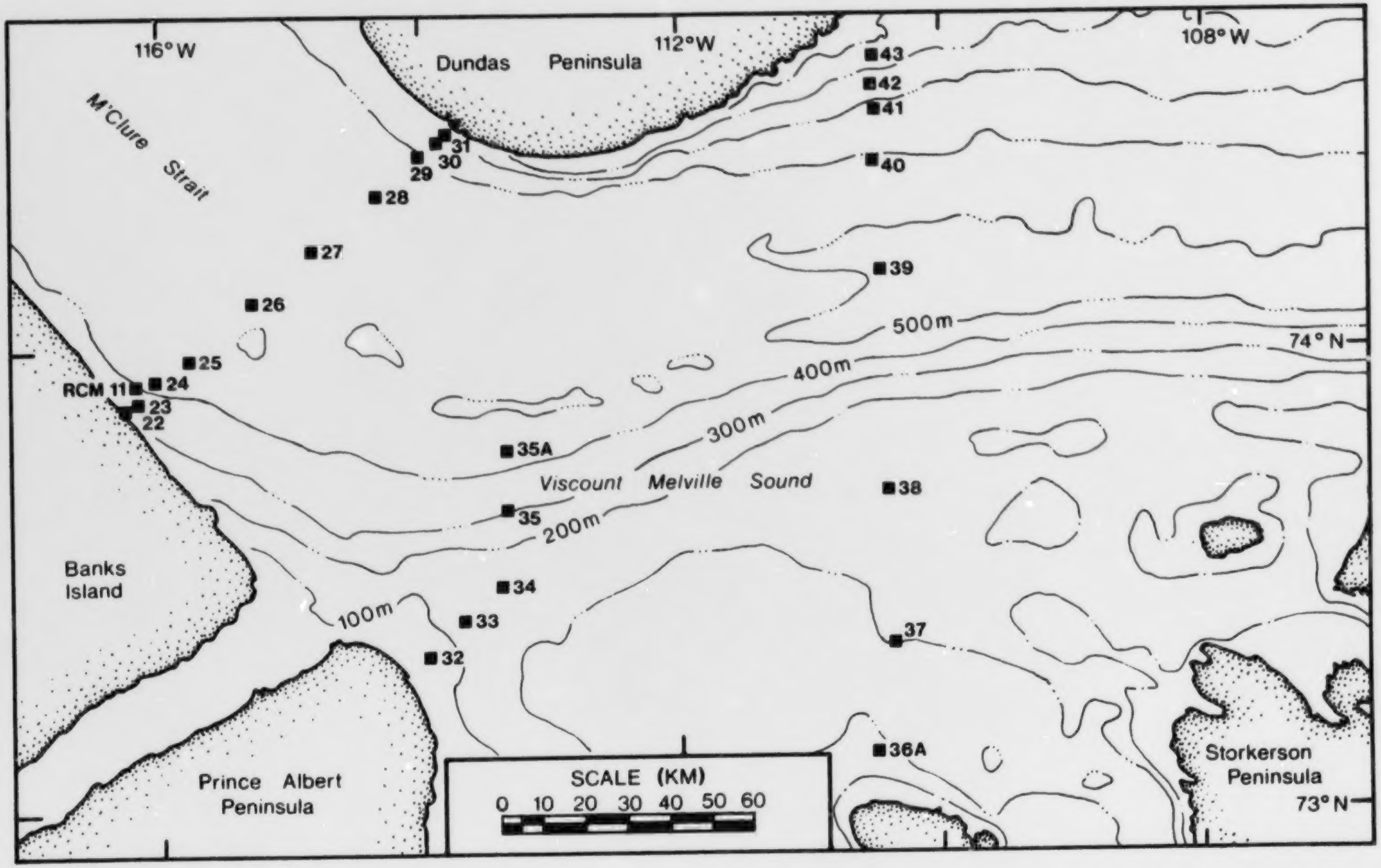
The local bathymetry of the channels in the vicinity of the CTD stations is shown in Figures 3 and 6. Figure 3 shows the western end of Viscount Melville Sound (CTD stations 22 to 31) to have fairly steep sides and a flat bottom of about 400 metres depth. The bathymetric contours in the middle section of the study area (CTD stations 36A to 43) indicate the channel bottom to be shallow (200 metres) in the northern half. The contours continue more or less parallel to the shore as one moves eastward. Figure 4 shows the bathymetry of the eastern boundary of the study area (CTD stations 44 to 52) to be smoothly sloping from the north and the south, with the deepest point occurring about one-third of the width from the south shore at about 500 metres depth. The square symbols in this figure denote 1982 stations, while the riangular and circular symbols represent 1983 and 1984 stations respectively. The bathymetry of Prince of Wales Strait is shown in Figures 5 and 6. It is characterized in a southwesterly direction by, successively, a sill of about 50 metres depth near the northeastern end of the strait (just southwest of stations 17-21), a basin of about 150 metres depth at stations 13 and 14, a laterally constricted sill of about 100 metres depth near station 10, and then a basin of 150 metres depth near station line 1-6B. From the 100-m sill defining this basin southward into Amundsen Gulf, the channel has a smooth, egular cross-section with a maximum depth of about 190 metres. A sill at 155 metres mark the connection to Amundsen Gulf (not shown in Figure 6).

3. DATA COLLECTION

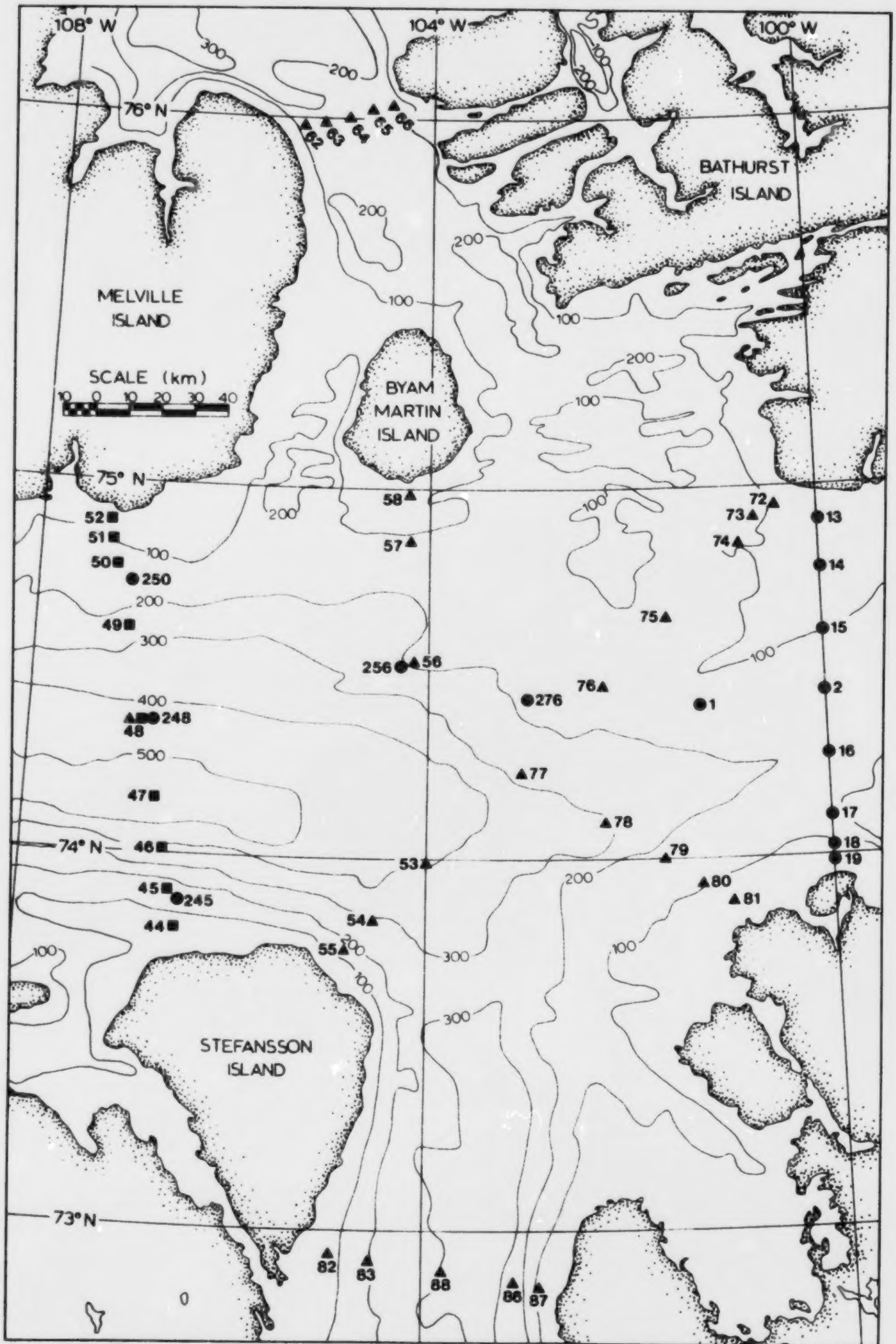
3.1 Instrumentation

A series of conductivity and temperature versus pressure profiles was acquired in the study area during March and April 1982. A total of 85 CTD profiles was obtained at the locations indicated in Figure 2. Several dissolved-nutrient samples were also collected. Salinity samples and *in situ* thermistor measurements were taken from time to time in order to check the calibration of the CTD probe. During the sampling period the area was covered by landfast ice, which provided a stable platform from which to work. The profiling system was transported by and operated from a Bell 206-L1 helicopter. Station positions were determined using a VLF/Omega Global Navigation System (GNS500A) on the aircraft. The accuracy of this system in coastal areas was, with careful use, better than one kilometre. However, excessive maneuvering at low elevation, and snow clouds raised during landing, degraded performance, and dead-reckoning navigation logs were therefore kept for crosschecking. GNS initializations were performed at geodetic markers.

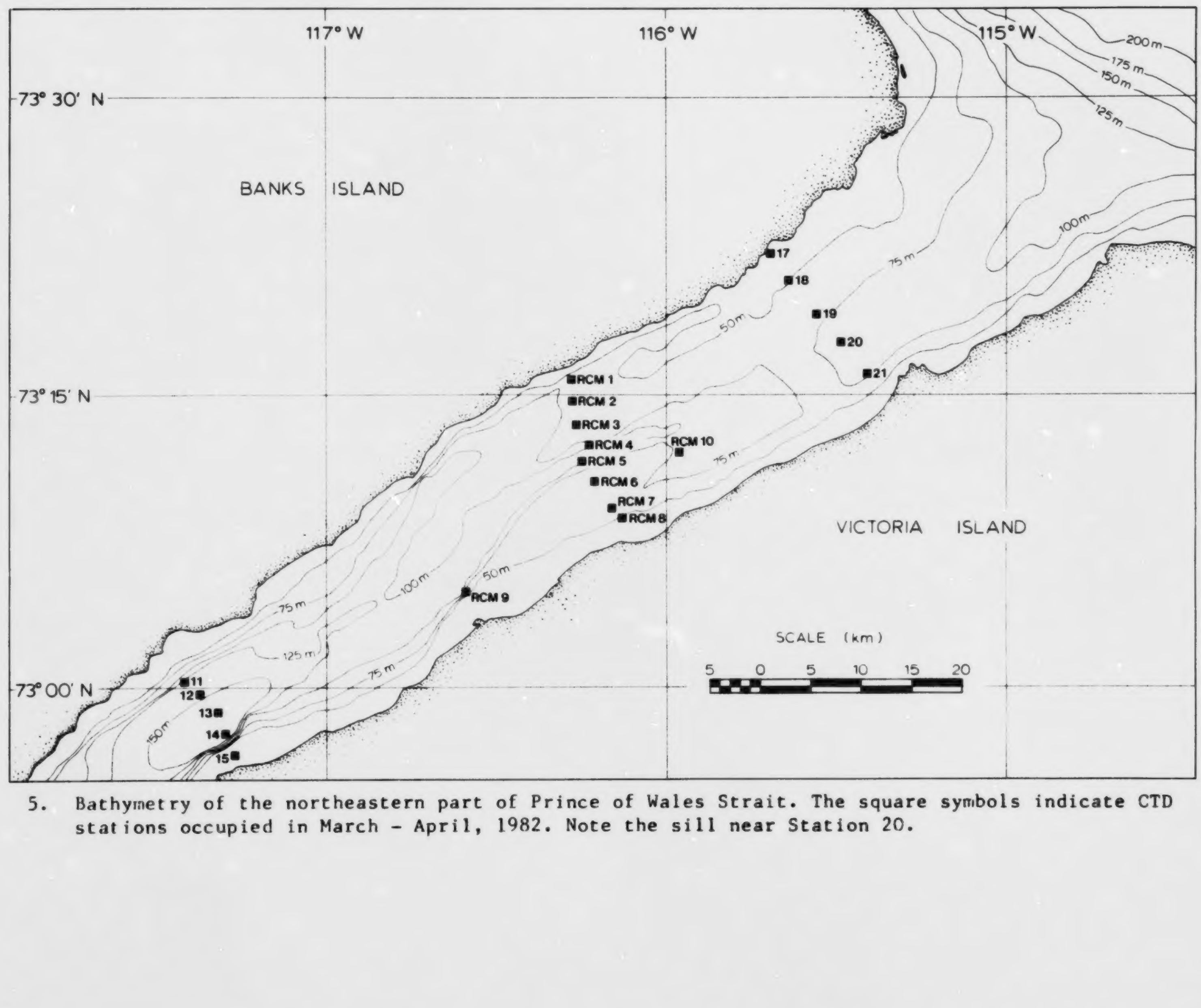
The profiling system used was a Guildline Model 8706 digital CTD probe together with a Guildline Model 87102 control unit. The primary probe used throughout the study was IOS's probe number 5. Probe 6 was used as a back-up in case of any difficulties with probe 5. Probe 4 was used by Arctic Sciences Limited for their concurrent study and for intercalibration comparisons with probes 5 and 6. The probes were fitted with three standard sensors: a conductivity cell, a thermometer, and a pressure sensor. The data were transmitted digitally from the probe to the control


116° W
M'Clure Strait
Dundas Peninsula
112°W
108° W
43
42
41
40
31
30
29
28
27
26
25
24
RCM 11
23
22
39
500m
74° N
400m
300m
35A
Viscount Melville Sound
38
35
200m
Banks Island
34
100m
33
32
37
36A
Prince Albert Peninsula
SCALE (KM)
0 10 20 30 40 50 60
Storkerson Peninsula
73° N

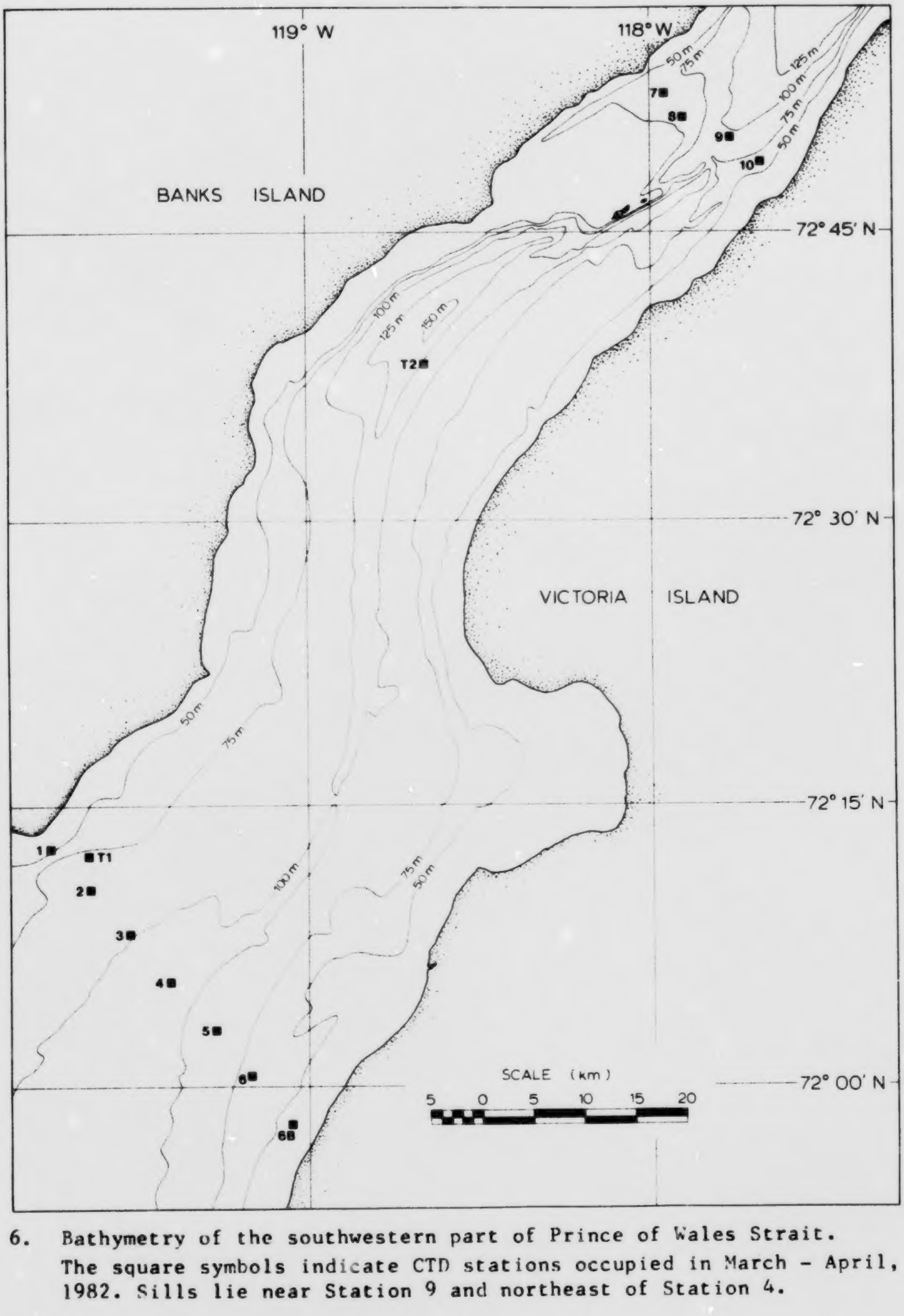
3. Bathymetry of the western part of Viscount Melville Sound. The square symbols indicate CTD stations occupied in March - April, 1982.


108° W
104° W
100° W
76° N
75° N
74° N
73° N
MELVILLE ISLAND
BYAM MARTIN ISLAND
BATHURST ISLAND
STEFANSSON ISLAND
SCALE (km)
10 0 10 20 30 40
100
200
300
400
500
52
51
50
250
49
48
248
47
46
45
245
44
53
54
55
56
256
57
58
62
63
64
65
66
72
73
74
75
76
276
77
78
79
80
81
1
2
13
14
15
16
17
18
19
82
83
86
87
88

6. Bathymetry of the eastern part of Viscount Melville Sound. The square symbols indicate CTD stations occupied in March - April, 1982. The triangular and circular symbols indicate CTD stations occupied during 1983 and 1984 respectively.


117° W
116° W
115° W
73° 30′ N
73° 15′ N
73° 00′ N
BANKS ISLAND
VICTORIA ISLAND
200 m
175 m
150 m
125 m
100 m
75 m
50 m
125 m
150 m
17
18
19
20
21
RCM 1
RCM 2
RCM 3
RCM 4
RCM 5
RCM 6
RCM 7
RCM 8
RCM 9
RCM 10
11
12
13
14
15
SCALE (km)
5 0 5 10 15 20

5. Bathymetry of the northeastern part of Prince of Wales Strait. The square symbols indicate CTD stations occupied in March - April, 1982. Note the sill near Station 20.


119° W
118° W
BANKS ISLAND
VICTORIA ISLAND
72° 45' N
72° 30' N
72° 15' N
72° 00' N
50 m
75 m
100 m
125 m
150 m
1
T1
2
3
4
5
6
6B
7
8
9
10
T2
SCALE (km)
5
0
5
10
15
20

6. Bathymetry of the southwestern part of Prince of Wales Strait. The square symbols indicate CTD stations occupied in March – April, 1982. Sills lie near Station 9 and northeast of Station 4.
]

unit along a single-conductor, probe-supporting cable. The manufacturer's specifications for the CTD sensors and their associated electronics are shown in Table 1. The model and serial number of each sensor are indicated in Table 2.

Table 1

Specifications for Guildline CTD

Function	Range	Accuracy	Resolution	Stability	Response Time
Cond.*	.110°/oo to 40°/oo	±.005°/oo	±.001°/oo	±.002°/oo/6 mos.	<50 msec.
Temp.	-2°C to 30°C	±.005°C	±.0005°C	±.005°C/6 mos. ±.002°C/30 days	<50 msec.
Press.	0 to 1500 dbar	±.15% f.s.	±.01% f.s.		<50 msec.

* specifications for conductivity are given as equivalent salinities.

Table 2

CTD Sensor Model and Serial Numbers

Sensor Type	Model Number	Serial Number Probe 4	Probe 5	Probe 6
Conductivity	87410	41671	43591	44974
Temperature	87401	42741	44501	46719
Pressure	207D45	513578	400280	
	87422 (Probe 6)			48090

The CTD interrogated each of its sensors at a rate of 25 times per second. The probe was normally lowered at a rate of about 1.5 metres per second, which meant that the vertical spatial sampling interval was about 0.06 metre. This fall rate was used in order that the response characteristics of the conductivity and temperature sensors would be matched (Perkin and Lewis, 1982).

In addition to the three standard sensors, the CTD probe was equipped with a device to warn the winch operator when it was nearing the ocean floor. This device consisted of a lead weight which was suspended beneath the probe by a 5- or 10-metre length of nylon line. The line was connected to a "touchdown" reed switch which was activated when the tension in the nylon line was released by the lead weight touching the seafloor. For purposes of obtaining water samples, a Knudsen reversing bottle was mounted on the cable above the probe. The bottle was connected to a bottle-trip reed switch which was activated when the bottle was tripped to obtain a water sample. This occurred during the probe's descent in the standard manner using a messenger dropped down the cable. The touchdown and bottle-trip reed switch values were recorded onto the digital data tape along with the conductivity ratio, temperature, and pressure data.

3.2 CTD Station Procedures

The procedures for conducting a CTD cast were as follows. At the chosen location as determined using the GNS, the helicopter landed and a gasoline powered generator was started. The generated power was used first to drill an eight-inch diameter hole through the sea ice with an ice auger turned by a one-inch shaft electric drill (Black and Decker), and thereafter to power the electronics. After the snow and ice fragments had been cleaned from the hole, the ice thickness was measured and a bottom depth sounding was taken using a Furuno FM-22B depth sounder. The CTD probe was then lowered to a depth of 15 metres as determined by a previously-measured mark on the winch cable. Power was applied to the probe and the output was monitored on the control unit until the readings had stabilized, usually after about ten minutes. The probe was then raised to within 3 or 4 metres of the surface and the audio tape recorder was started. The probe was then lowered at a speed of about 1.6 metres per second until within 30 metres of the bottom. At this point, the descent rate of the probe was slowed to about 1 metre per second; the probe was stopped when the touchdown switch was activated. The tape recorder was then stopped and the probe was pulled back to the surface. Once the probe was secured within the helicopter, the conductivity cell was filled with a methyl alcohol solution to prevent seawater from freezing within the cell. Methyl hydrate was also applied to the temperature-sensor coil to keep ice from forming on its surface.

If a salinity sample was required at the station, it was obtained with the Knudsen reversing bottle mounted immediately above the CTD probe. The bottle was tripped as the probe descended, in order to provide a simultaneous salinity value for calibration of the CTD probe. From each Knudsen bottle, three samples were drawn into 150-mL bottles. These were shipped unfrozen to the laboratory at IOS where they were analyzed using a Guildline 8400 AutoSal standardized with Copenhagen Seawater. Problems were encountered in preventing freezing of water samples, and consequent salinity changes, in the cold helicopter cabin prior to return to base. Thus the number of good samples is small.

Temperature-calibration data were obtained by attaching a pair of bead thermistors adjacent to the temperature sensor of the probe. The probe, with attached thermistors, was lowered as far as the thermistor cables permitted, about 8 metres below the surface. It was verified that the water at this depth was homogeneous and stable in temperature. The thermistors were connected to an electrical bridge circuit which was used to determine the temperature from each thermistor. This procedure was carried out prior to the CTD profiling at that station. No special effort was made to ventilate the temperature-sensor and thermistors during calibration.

Dissolved nutrient samples were obtained at several stations throughout the study. These were gathered both as an index of potential biological productivity and as a tracer of Pacific Ocean water (Codispoti and Lowman, 1973). The samples were obtained using a Knudsen bottle attached above the CTD cable, with sampled depth and corresponding temperature and salinity obtained from the CTD record. From each sample, 2 glass and 2 plastic 10-mL vials were filled, following a double rinsing with sample water. Leaving some air space to allow for expansion, the vials were capped and frozen in darkness at outside temperature (-30°C to -40°C). Samples were shipped frozen to IOS, where they were thawed, shaken and analyzed on a Technicon Auto Analyzer for dissolved nitrate and nitrite, silicate and phosphate.

After each day of CTD measurements the data tapes were played back through a Hewlett-Packard 9825 computer. Profiles were plotted and checked for quality and instrument performance.

3.3 Calibration

A CTD pressure calibration was done immediately prior to each cast by lowering the probe to 15 metres depth as indicated by a measured mark on the conducting cable. This depth was assigned the pressure of 15.15 decibars. The difference between this pressure and that indicated on the control unit was then designated as the pressure offset for the entire cast at that particular station. The slope of the pressure calibration curve, based on laboratory work with a dead-weight tester, was constant over the full pressure range of the sensor and measured pressures were therefore adjusted with only a single offset value.

Linear equations were used to adjust measured temperature and conductivity-ratio values. For temperature, the offset was determined from comparisons with a pair of precision thermistors in the field, as described above, and the slope was pre-set electronically within the probe to 1.000 ±.003, although laboratory bath tests at a number of temperatures indicated a departure from this value by approximately -.0003. For conductivity ratio, the offset was set to zero, and slope (cell constant) was determined in the following manner. A conductivity ratio was calculated from a sampled salinity and a simultaneously measured temperature and pressure (calibrated previously). The calibration slope was then calculated as a ratio of this conductivity compared with the raw conductivity as measured by the CTD. The reference measurements were made several times throughout the field trip with high-precision thermistors near the surface and with salinity (bottle) samples. The profiles during which bottle samples were taken are indicated in the CTD station list in the Appendix. Calibration data are tabulated in Tables 3, 4, and 5. Using these calibration coefficients, the resulting estimated uncertainty in determination of salinity was ±.008.

Table 3

CTD Pressure Calibration Results

Consecutive Cast Number	Date	Additive Correction (dbar)		CTD Probe No.
4300-4301	26 March	-0.75	±0.15	5
4302-4304	27 March	-0.75	±0.15	5
4305-4311	29 March	-0.75	±0.15	5
4312-4320	30 March	-0.45	±0.15	5
4321-4326	31 March	-0.90	±0.15	5
4327-4329	1 April	-0.90	±0.15	5
4330-4337	2 April	-0.45	±0.15	5
4338	3 April	-8.50		6
4339-4343	3 April	-0.45	±0.30	5
4344-4353	4 April	-0.30	±0.30	5
4354-4356	5 April	-0.60	±0.15	5
4357-4359	15 April	-0.75	±0.15	5
4360-4362	15 April	0.00	±0.15	5
4363-4367	16 April	-0.30	±0.15	5
4368-4371	17 April	-0.60	±0.15	5
4372	22 April	-1.05		5
4373	22 April	-1.60		4
4374	22 April	-13.50		6

Table 4

CTD Temperature Calibration Results

CTD Probe Number	Mean Additive Correction (Offset)		Multiplicative Factor
4	+0.011°C		1.000
5	+0.003°C	±0.001°C	1.000
6	+0.005°C	±0.004°C	1.000

Table 5

CTD Conductivity Calibration Results

CTD Probe Number	Additive Correction (Offset)	Multiplicative Factor (Cell Constant)
4	0.0	0.99980
5	0.0	1.00025
6	0.0	0.99796

Calibration intercomparison profiles were carried out between the CTD system used in the present study and the CTD system used at the same time for the companion study by Arctic Sciences Ltd. Arctic Sciences Ltd. also compared the calibration of their CTD with that of the CTD being used for another study at the same time by the Bayfield Laboratory for Marine Science and Surveys (BLMSS). The two IOS/ASL intercomparisons were carried out on April 2 in Prince of Wales Strait and on April 22 in Barrow Strait. In the first instance the CTD probes were lowered simultaneously at a separation of approximately 35 metres. Bottle samples were also obtained to provide an accurate salinity determination. In the second instance, the ASL CTD probe and two IOS CTD probes were lowered sequentially at a BLMSS test site in Barrow Strait near Resolute. Thermistor values and salinity samples were also taken at the same time. A comparison of final calibrated and adjusted values for CTD probes 4, 5, and 6 are shown in Tables 6 and 7.

Table 6

Comparison of Final Temperature Values

From April 22 Intercomparison Test

Pressure (dbar)	Temperature (°C) CTD #4	CTD #5	CTD #6	Δ Temperature (°C) CTD #5 - CTD #4	CTD #5 - CTD #6
6	-1.801	-1.802	-1.800	-0.001	-0.002
10	-1.799	-1.801	-1.800	-0.002	-0.001
15	-1.796	-1.797	-1.799	-0.001	+0.002
20	-1.792	-1.795	-1.789	-0.003	-0.006
30	-1.795	-1.798	-1.789	-0.004	-0.009
40	-1.784	-1.788	-1.779	-0.004	-0.009
50	-1.766	-1.770	-1.758	-0.004	-0.012
60	-1.748	-1.763	-1.738	-0.015	-0.025

Table 7

Comparison of Final Salinity Values From April 22 Intercomparison Test

Pressure (dbar)	Salinity CTD #4	CTD #5	CTD #6	Δ Salinity CTD #5 - CTD #4	CTD #5 - CTD #6
6	32.903	32.904	32.904	0.001	0.000
10	32.907	32.904	32.905	-0.003	-0.001
15	32.918	32.909	32.914	-0.009	-0.005
20	32.928	32.931	32.936	0.003	-0.005
30	32.947	32.942	32.962	-0.005	-0.020
40	32.967	32.970	32.984	0.003	-0.014
50	32.989	32.989	33.005	0.000	-0.016
60	32.996	32.998	33.015	0.002	-0.017

The results of the intercomparison test on April 2 between the CTD system used by Arctic Sciences Ltd. (probe 4) and that used by IOS (probe 5) had indicated a large difference in the measured salinity (Fissel et al., 1984). Subsequent analysis of water bottle samples at IOS base at Resolute showed that most, if not all, of the difference was due to erroneously low readings from probe 4. The later intercomparison test between probes on April 22 showed that this problem had been rectified. The apparent cause of the problem was seawater leakage into the underwater connector to the conductivity cell on CTD probe #4.

4. DATA PROCESSING

The first stage in processing the CTD data was the translation of the information from the original audio cassette tape onto a computer-compatible nine-track magnetic tape. The data were then run through a series of programs for editing and calibration. The principal despiking procedure was a first-difference filter on each parameter with thresholds for successive scans set at 0.001 for conductivity ratio, 0.1°C for temperature, and 1.0 decibar for pressure. The temperature and conductivity sensors on the CTD probe have different response times to variations within the water column. To compensate for this effect, a response-matching algorithm was applied to the data (Perkin and Lewis, 1982). Since the rate of change of the variations, and hence the algorithm, depend on the speed with which the probe moves through the water, the fall speed of the probe was calculated as a moving average over 25 successive scans. In addition, those data points with fall speeds of 0.5 metres per second or less were discarded to avoid erroneous values resulting from self-heating effects of the temperature sensor and from inadequate flushing of the conductivity cell. A correction to the conductivity ratio - to compensate for changes resulting from geometrical distortions of the conductivity cell due to the differing ambient pressure and temperature during the CTD profiling (Bennett, 1976)-should have been applied. However, a programming oversight resulted in the neglect of this correction. A calculation of the effect at 400 decibars of pressure and 0.3°C temperature indicates that the appropriate correction to the conductivity ratio measurement would have been $+4 \times 10^{-5}$, which represents about +0.0016 $^{o}/oo$ of salinity. After calibrations and corrections had been applied, profiles displaying each data scan were plotted in a large-scale format for close visual scrutiny. Any remaining data spikes or inconsistencies were edited subjectively and the profiles were re-plotted for final checking.

The reported values of salinity were calculated using the Practical Salinity Scale 1978 (Lewis, 1981). The freezing-point temperatures at one atmosphere pressure were calculated according to the UNESCO definition (Millero, 1978). Density has been presented as sigma-t (σ_t), from the relationship,

$$\sigma_t = (\text{density} - 1) \times 10^3 \quad (\text{kg/m}^3)$$

computed at one atmosphere pressure. The dynamic height anomaly was calculated as the pressure integral of the specific volume anomaly (Millero et al., 1980) from the surface. The values were produced in units of dynamic metres (1 dynamic metre = 10 m^2/s^2 = 10 J/kg). Sound speed was calculated using an algorithm by Chen and Millero (1977).

5. DATA PRESENTATION

The calibrated and corrected CTD data are presented in the Appendix. The plots display vertical profiles of temperature, salinity, and sigma-t. Original data have been subsampled to enable plotting at the resolution limit of the plotter. Also plotted are discrete values of surface pressure freezing temperatures, indicated by "+" symbols. The pressure at the seafloor is denoted by a "∇" symbol below each of the T, S, and σ_t (for simplicity, σ_t has been labelled σ on these plots) traces. The data listing associated with a profile commences on the page facing that profile. The heading information includes the cruise number, area, station identification, experiment (or consecutive) number, date, latitude and longitude of the station, water depth, and ice thickness. The calibrated, corrected, and derived values of temperature, sigma-t, dynamic height anomaly, and sound speed are listed at the lowest acceptable pressure, then at regular intervals. The data values of the last 20 decibars of each data set are listed at 1 decibar intervals. Each listed value is linearly interpolated to represent a value corresponding to the exact designated pressure. The page following the data listing shows a temperature versus salinity diagram. Lines of constant sigma-t are drawn as an aid to interpreting the plot. As before, discrete values of surface pressure freezing temperatures are designated by "+" symbols. The "Δ" symbols signify the specific pressures of 50, 100, 150, 200, 300, and 400 decibars.

An analysis and interpretation of these CTD data will appear in a separate technical report.

Nutrient concentrations were in most cases determined in duplicate at each sampled level. To choose the "best" value for nutrient concentration the following procedure was used:

1. For each nutrient, the root-mean-square deviation (σ) from 1.0 of ratios to the median at each sampled level was determined.
2. Ratios at each sampled level were compared to σ, and the corresponding nutrient concentrations were discarded if the difference of the ratio from 1.0 exceeded 1.25σ.
3. The remaining, "accepted" nutrient concentration values were averaged at each sampled level.

The nutrient values are shown below in Table 8.

Table 8

Measured Nutrient Concentrations

Consecutive Cast No.	Station	Seafloor Depth	Sample Pressure	Temp. °C	Salinity PSS 78	Silicate mmho/m^3	Nitrate mmho/m^3	Phosphate mmho/m^3
4327	14	145	15	-1.77	32.40	14.3	6.1	2.34
			75	-1.60	32.71	25.8	11.0	2.82
4338	T2	130	5	-1.77	32.32	13.5	5.9	1.36
4339	T2	107	80	-1.55	33.14	31.5	13.9	2.44
4353	21	57	17	-1.77	32.39	12.5	5.4	1.31
4356	6A	145	87	-1.53	32.93	29.0	14.9	2.24
4362	43	108	23	-1.66	32.21	9.6	3.7	1.41

For the combined data sets from this study, and that of Fissel et al. (1984), the root-mean square deviations, expressed as percentages, were:

Silicate	9.3%
Nitrate	5.4%
Phosphate	11.4%

LIST OF REFERENCES

Bennett, A.S., 1976. Conversion of *in situ* measurements of conductivity to salinity, *Deep Sea Research 23*, 157-165.

Chen, C.T., and F.J. Millero, 1977. Speed of sound in seawater at high pressures. *J. Acoust. Soc. of Amer. 62(5)*, 1129-1135.

Codispoti, L.A., and D. Lowman, 1973. A reactive silicate budget for the Arctic Ocean. *Limnology and Oceanography 18(3)*, 448-456.

Fissel, D.B., D.N. Knight, and J.R. Birch, 1984. An oceanographic survey of the Canadian Arctic Archipelago, March 1982. *Can. Contr. Rep. Hydrogr. and Ocean Sci. 15*, Institute of Ocean Sciences, Sidney, B.C., 415p.

LeBlond, P.H., 1980. On the surface circulation in some channels of the Canadian Arctic Archipelago. *Arctic 33(1)*, 189-197.

Lewis, E.L., 1981. The practical salinity scale 1978 and its antecedents. In: Background Papers and Supporting Data on the Practical Salinity Scale 1978, *UNESCO Technical Papers in Marine Science 37*, UNESCO, Paris, 13-18.

Millero, F.J., 1978. Freezing point of seawater. In: Eighth report of the joint panel on oceanographic tables and standards, *UNESCO Technical Papers in Marine Sciences 28*, 29-34.

Millero, F.J., C. Chen, A. Bradshaw, and K. Schleicher, 1980. A new high pressure equation of state for seawater. *Deep Sea Research 27A*, 255-264.

Peck, G.S., 1978. Arctic Oceanographic Data Report 1977. Western Viscount Melville Sound. *Data Report Series No. 78-3*. Canada Centre for Inland Waters, Burlington, Ontario, 150p.

Perkin, R.G., and E.L. Lewis, 1982. Design of CTD observational programs in relation to sensor time constants and sampling frequencies. *Can. Tech. Rep. Hydrogr. Ocean. Sci. 7*, Institute of Ocean Sciences, Sidney, B.C., 47p.

Prinsenberg, S.J., 1978. Arctic Oceanographic Data Report 1978, Vol. 1, *Data Report Series No. 78-4*. Canada Centre for Inland Waters, Burlington, Ontario, 211p.

Polargas Project, 1979. M'Clure Strait Marine Geophysical Investigation - April 1979. By Polargas Project, Toronto, for Combined Pipeline System Study, 73p.

APPENDIX

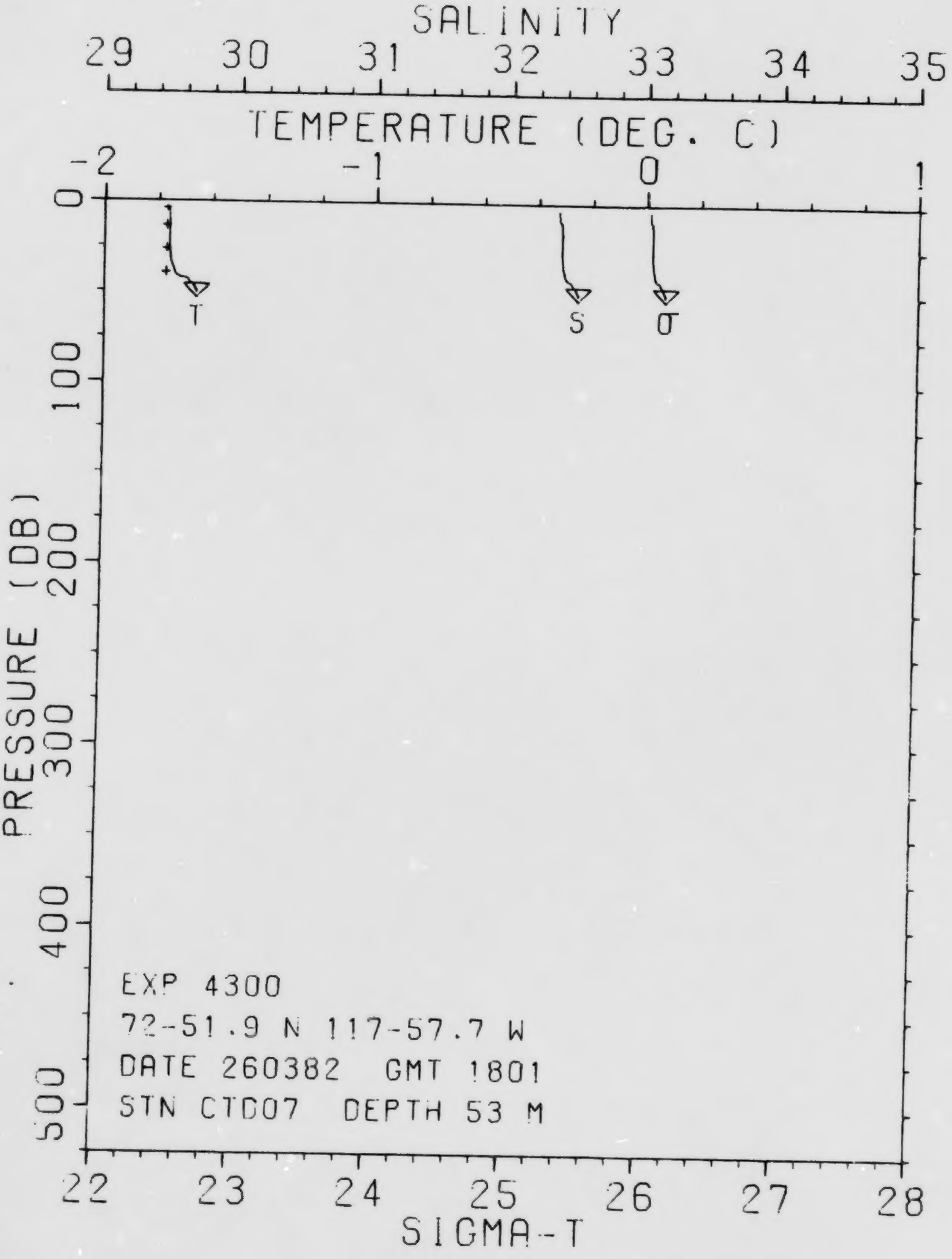
CTD INDEX, DATA PLOTS, AND LISTINGS

STATION NAME - EXPERIMENT NUMBER INDEX

The index list is ordered numerically by station number, then alphabetically for those stations preceded by a letter. The list gives the corresponding experiment number, date of occupation, and geographical area for each station. The following symbols appear in the comments column: S = salinity calibration sample obtained; T = temperature calibration performed; P = pressure check performed; N = nutrient samples collected; I = CTD probe intercomparison station. Unless otherwise indicated, CTD probe number 5 was used for each cast.

Station	Experiment Number	Date (GMT)	Geographical Area	Comments
1	4330	2 April	Prince of Wales Strait	P
2	4331	2 April	"	P
3	4332	2 April	"	P
4	4333	2 April	"	P
5	4334	2 April	"	P
6	4335	2 April	"	P
6B	4336	2 April	"	P
7	4300	26 March	"	P
8	4301	26 March	"	P
9	4310	29 March	"	P
10	4311	30 March	"	P
11	4309	29 March	"	P
12	4308	29 March	"	P
13	4304	27 March	"	P
	4307	29 March	"	P
14	4303	27 March	"	P
	4306	29 March	"	P
	4327	1 April	"	S,T,P,N
15	4302	27 March	"	P
	4305	29 March	"	P
17	4349	4 April	"	P
18	4350	4 April	"	P
19	4351	4 April	"	P
20	4352	4 April	"	P
21	4353	4 April	"	S,P,N
22	4326	31 March	M'Clure Strait	P
23	4325	31 March	"	P
24	4324	31 March	"	P
25	4323	31 March	"	P
26	4322	31 March	"	P
27	4321	31 March	"	P
28	4341	3 April	"	P
29	4340	3 April	"	P
30	4329	1 April	"	P
31	4328	1 April	"	P
	4372	22 April	"	S,T,P
	4373	22 April	"	S,T,P probe #4
	4374	22 April	"	T,P probe #6

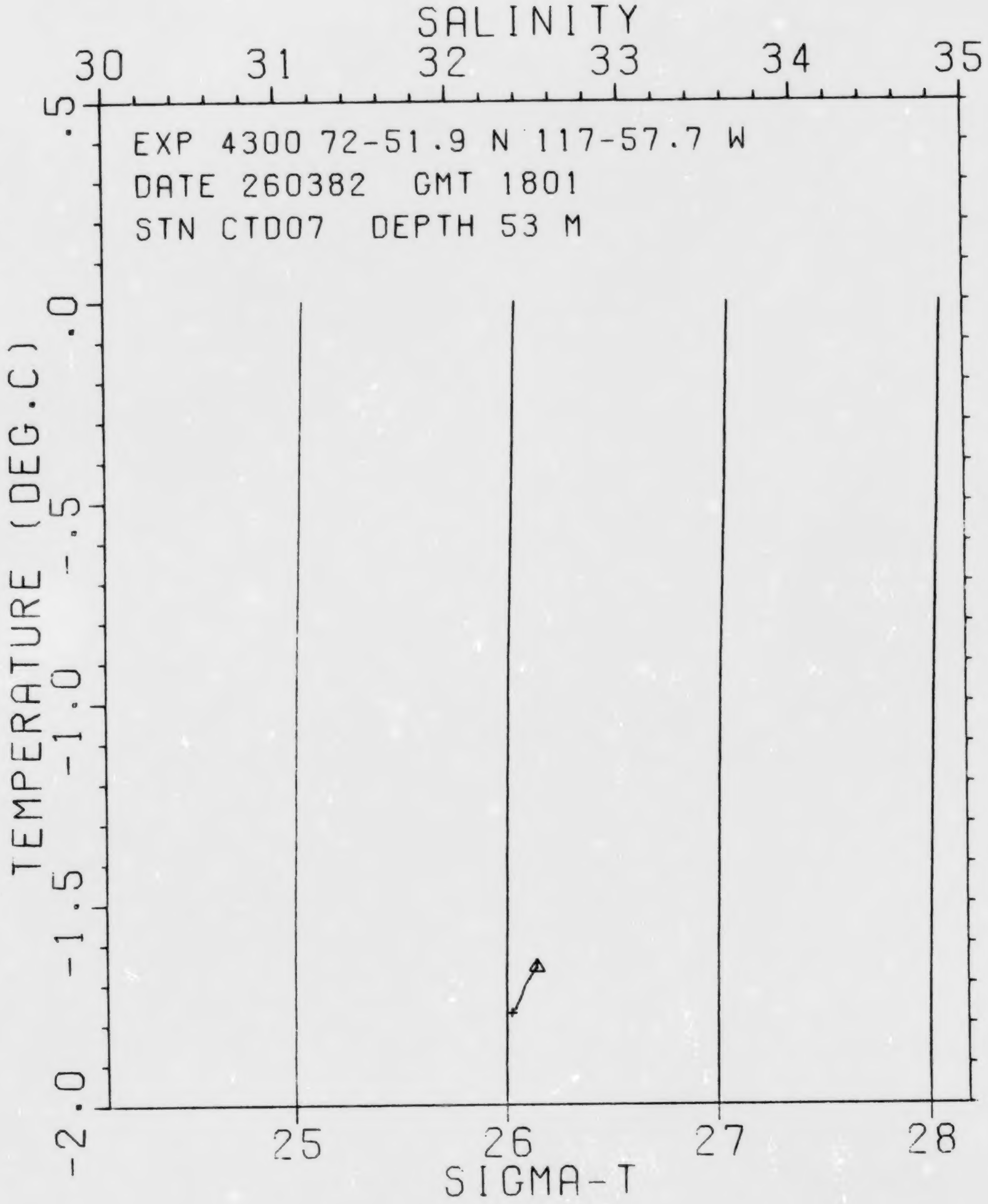
Station	Experiment Number	Date (GMT)	Geographical Area	Comments
32	4348	4 April	Peel Point	P
33	4347	4 April	"	P
34	4346	4 April	"	P
35	4345	4 April	"	P
35A	4344	4 April	"	P
36A	4356	5 April	Natkusiak Peninsula –	S,P,N, noisy
37	4355	5 April	Winter Harbour	P record
38	4354	5 April	"	P
39	4357	15 April	"	P noisy record
	4358	15 April	"	P noisy record
40	4359	15 April	"	P
41	4360	15 April	"	P
42	4361	15 April	"	P
43	4362	15 April	"	S,P,N
44	4366	16 April	Ross Point – Stefansson	P
45	4367	16 April	Island	P
46	4365	16 April	"	P
47	4364	16 April	"	P
48	4363	16 April	"	P
49	4368	17 April	"	P
50	4369	17 April	"	P
51	4370	17 April	"	P
52	4371	17 April	"	T,P
RCM 1	4313	30 March	Prince of Wales Strait	P
	4376	23 June	"	P probe #4
RCM 2	4314	30 March	"	P
	4377	24 June	"	P probe #4
RCM 3	4315	30 March	"	P
	4378	24 June	"	P probe #4
RCM 4	4316	30 March	"	P
	4379	24 June	"	P probe #4
RCM 5	4317	30 March	"	P
	4381	24 June	"	P probe #4
RCM 6	4318	31 March	"	P
	4382	24 June	"	P probe #4
RCM 7	4320	31 March	"	P
	4383	24 June	"	P probe #4
RCM 8	4319	31 March	"	P
	4375	23 June	"	S,T,P probe #4
RCM 9	4343	3 April	"	P
	4384	24 June	"	P probe #4
RCM 10	4342	3 April	"	P
	4380	24 June	"	P probe #4
RCM 11	4312	30 March	"	P,I
T1	4337	2 April	"	P,I
T2	4338	3 April	"	S,T,P,N probe #6
	4339	3 April	"	S,T,P,N

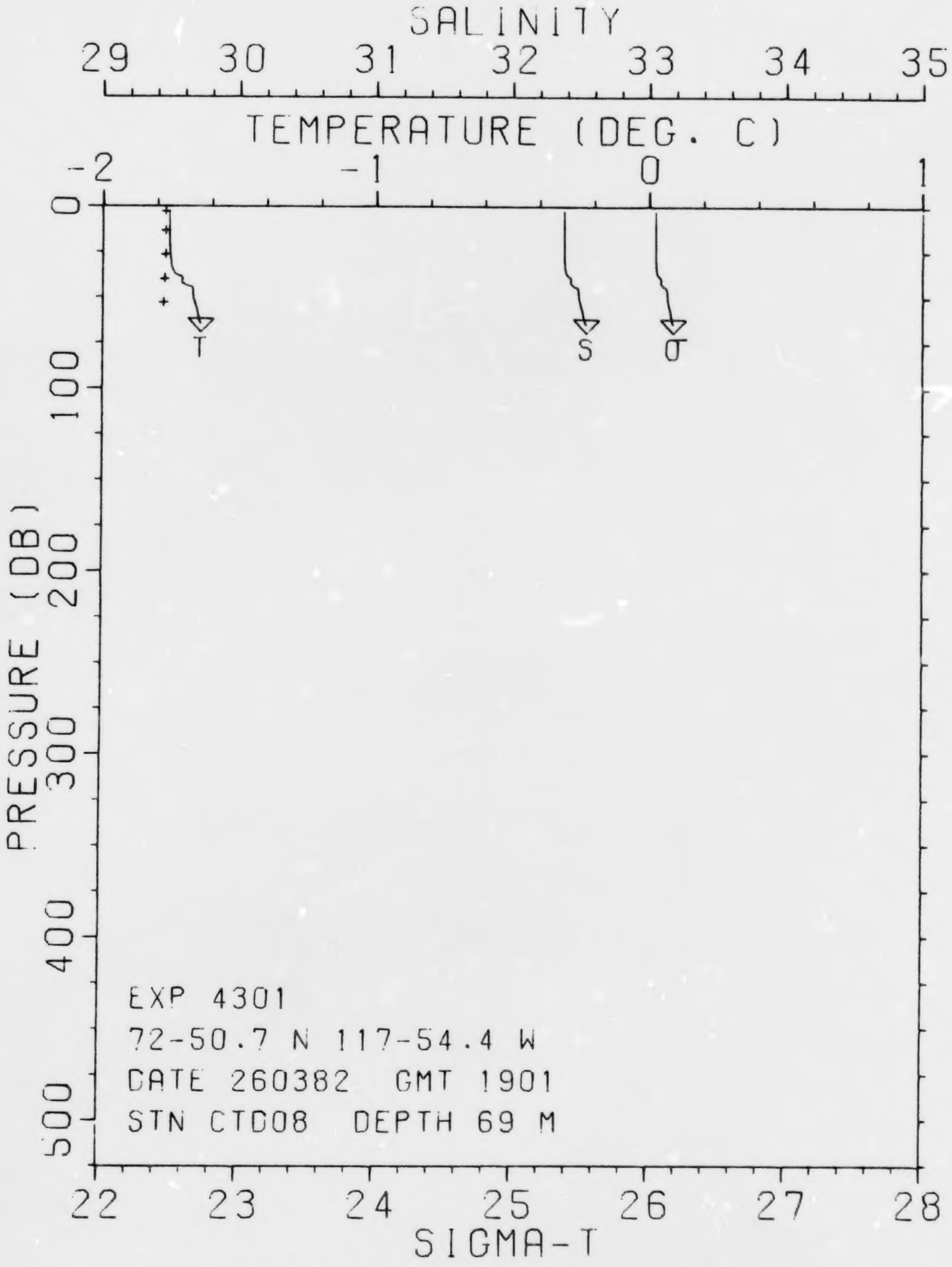

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4300
72-51.9 N 117-57.7 W
DATE 260382 GMT 1801
STN CTD07 DEPTH 53 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD07 EXPERIMENT NO. 4300 DATE 260382 GMT 1801
LAT. 72-51.9 N LONG. 117-57.7 W
WATER DEPTH 53.4 M ICE THICKNESS 1.9 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
3.7	-1.764	32.346	26.023	.0073	1437.41
4.0	-1.765	32.347	26.023	.0079	1437.41
5.0	-1.763	32.348	26.024	.0099	1437.44
6.0	-1.764	32.351	26.026	.0119	1437.45
7.0	-1.762	32.350	26.025	.0138	1437.48
8.0	-1.762	32.351	26.026	.0158	1437.49
9.0	-1.762	32.348	26.024	.0178	1437.51
10.0	-1.762	32.362	26.035	.0197	1437.54
11.0	-1.761	32.370	26.042	.0217	1437.57
12.0	-1.763	32.369	26.041	.0237	1437.58
13.0	-1.763	32.370	26.042	.0256	1437.60
14.0	-1.761	32.369	26.041	.0276	1437.62
15.0	-1.761	32.371	26.042	.0295	1437.64
16.0	-1.761	32.369	26.041	.0315	1437.66
17.0	-1.762	32.372	26.044	.0334	1437.67
18.0	-1.763	32.371	26.043	.0354	1437.68
19.0	-1.762	32.370	26.042	.0373	1437.70
20.0	-1.762	32.369	26.041	.0393	1437.72
21.0	-1.762	32.370	26.042	.0413	1437.73
22.0	-1.763	32.370	26.042	.0432	1437.75
23.0	-1.762	32.370	26.042	.0452	1437.77
24.0	-1.762	32.369	26.041	.0471	1437.78
25.0	-1.761	32.371	26.043	.0491	1437.81
27.5	-1.761	32.371	26.043	.0540	1437.85
28.0	-1.760	32.373	26.044	.0549	1437.86
29.0	-1.759	32.373	26.044	.0569	1437.88
30.0	-1.757	32.372	26.043	.0588	1437.91
31.0	-1.758	32.374	26.045	.0608	1437.92
32.0	-1.757	32.375	26.046	.0627	1437.95
33.0	-1.754	32.373	26.044	.0647	1437.97
34.0	-1.755	32.378	26.048	.0666	1437.99
35.0	-1.753	32.374	26.045	.0686	1438.01
36.0	-1.749	32.377	26.047	.0705	1438.05
37.0	-1.747	32.384	26.053	.0725	1438.09
38.0	-1.744	32.388	26.056	.0744	1438.12
39.0	-1.743	32.390	26.058	.0764	1438.15
40.0	-1.740	32.393	26.060	.0783	1438.18
41.0	-1.734	32.398	26.064	.0802	1438.23
42.0	-1.724	32.407	26.071	.0822	1438.31
43.0	-1.696	32.434	26.093	.0841	1438.50
44.0	-1.690	32.448	26.104	.0860	1438.56
45.0	-1.685	32.451	26.106	.0879	1438.61
46.0	-1.673	32.470	26.121	.0898	1438.70

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
47.0	-1.670	32.475	26.126	.0916	1438.75
48.0	-1.668	32.476	26.126	.0935	1438.77
49.0	-1.666	32.485	26.133	.0954	1438.81
50.0	-1.658	32.496	26.142	.0972	1438.88
51.0	-1.662	32.496	26.142	.0991	1438.88
51.0	-1.662	32.495	26.141	.0992	1438.88

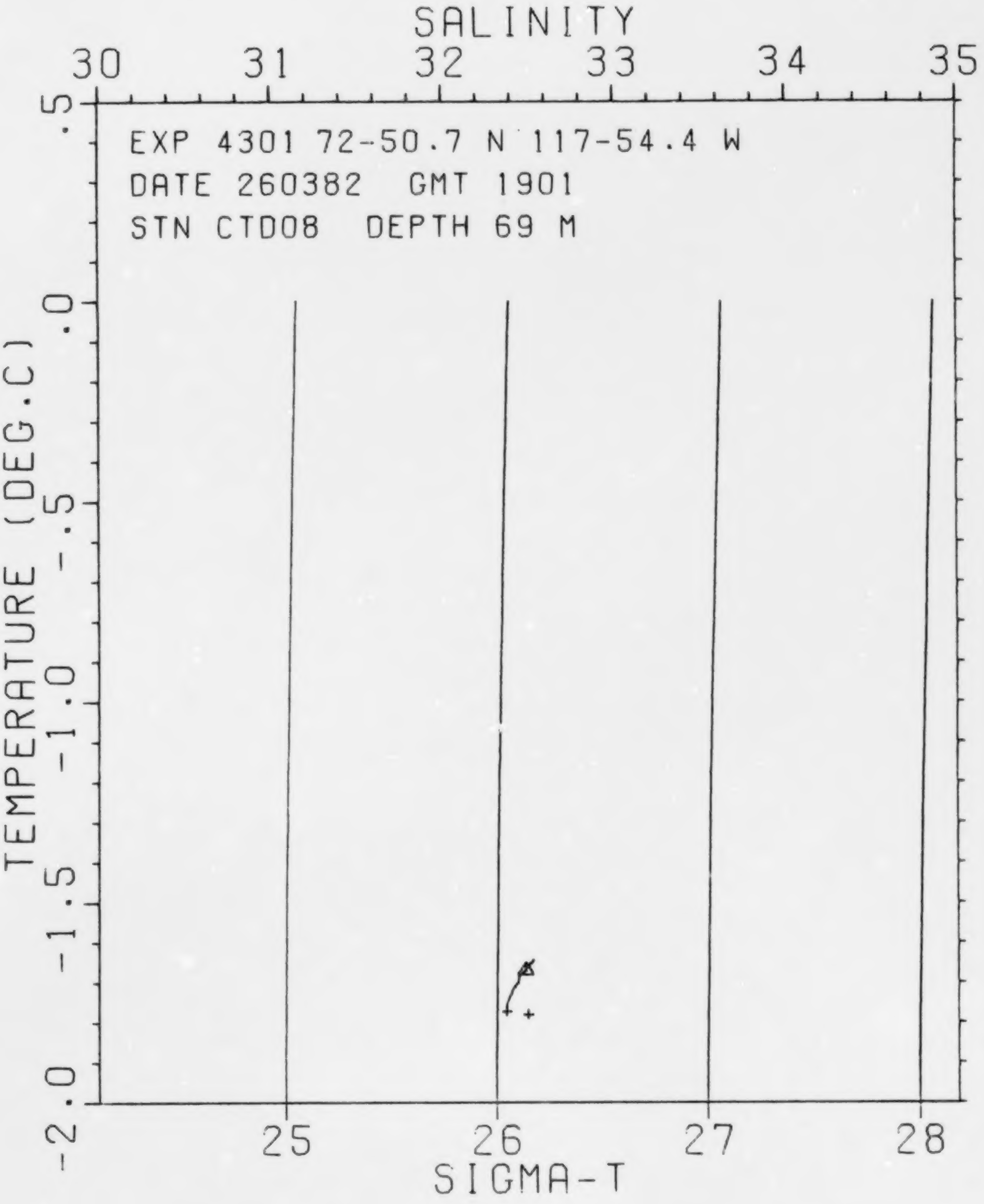

SALINITY
30
31
32
33
34
35
EXP 4300 72-51.9 N 117-57.7 W
DATE 260382 GMT 1801
STN CTD07 DEPTH 53 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

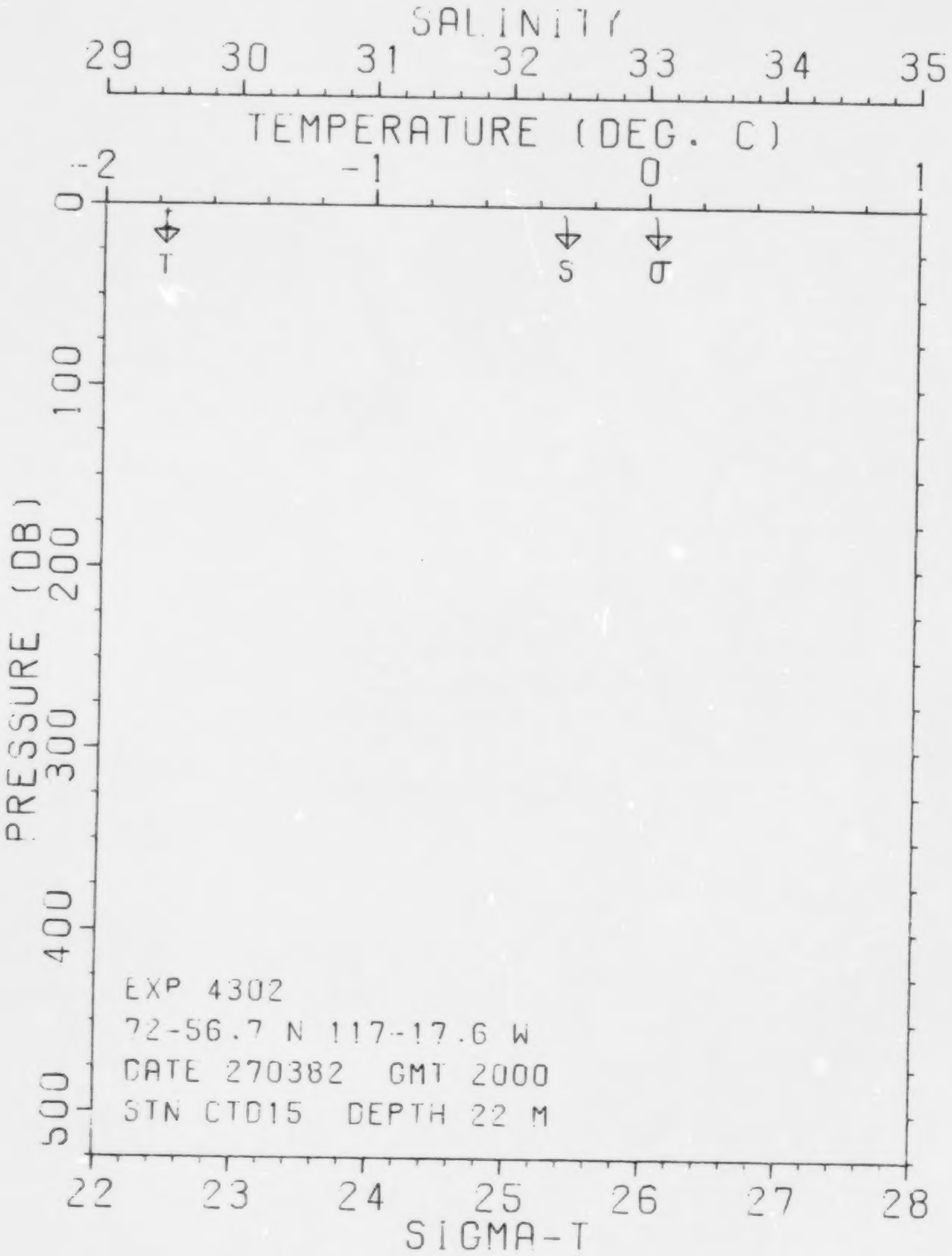

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
T
S
σ
PRESSURE (DB)
0
100
200
300
400
500
EXP 4301
72-50.7 N 117-54.4 W
DATE 260382 GMT 1901
STN CTD08 DEPTH 69 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD08 EXPERIMENT NO. 4301 DATE 260382 GMT 1901
LAT. 72-50.7 N LONG. 117-54.4 W
WATER DEPTH 69.0 M ICE THICKNESS 1.9 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
2.6	-1.759	32.372	26.044	.0051	1437.45
3.0	-1.759	32.377	26.047	.0059	1437.46
4.0	-1.758	32.374	26.045	.0078	1437.48
5.0	-1.758	32.374	26.045	.0098	1437.50
6.0	-1.758	32.374	26.045	.0117	1437.51
7.0	-1.758	32.374	26.045	.0137	1437.53
8.0	-1.758	32.375	26.046	.0156	1437.55
9.0	-1.757	32.373	26.044	.0176	1437.57
10.0	-1.757	32.373	26.044	.0195	1437.58
11.0	-1.759	32.374	26.045	.0215	1437.59
12.0	-1.758	32.374	26.045	.0234	1437.61
13.0	-1.757	32.374	26.045	.0254	1437.63
14.0	-1.757	32.374	26.045	.0274	1437.65
15.0	-1.758	32.376	26.046	.0293	1437.66
16.0	-1.758	32.375	26.046	.0313	1437.68
17.0	-1.758	32.375	26.046	.0332	1437.70
18.0	-1.757	32.374	26.045	.0352	1437.72
19.0	-1.758	32.375	26.046	.0371	1437.73
20.0	-1.758	32.375	26.046	.0391	1437.75
21.0	-1.756	32.375	26.046	.0410	1437.77
22.0	-1.757	32.376	26.046	.0430	1437.78
23.0	-1.756	32.376	26.046	.0449	1437.81
24.0	-1.755	32.374	26.045	.0469	1437.82
25.0	-1.755	32.376	26.046	.0488	1437.84
27.5	-1.754	32.376	26.046	.0537	1437.89
30.0	-1.751	32.377	26.048	.0586	1437.94
32.5	-1.751	32.380	26.050	.0634	1437.99
35.0	-1.745	32.384	26.053	.0683	1438.06
37.5	-1.734	32.394	26.061	.0732	1438.17
40.0	-1.708	32.429	26.089	.0779	1438.38
42.5	-1.713	32.424	26.085	.0827	1438.39
43.0	-1.703	32.432	26.091	.0837	1438.46
44.0	-1.686	32.449	26.104	.0856	1438.58
45.0	-1.671	32.478	26.128	.0875	1438.71
46.0	-1.671	32.482	26.131	.0893	1438.73
47.0	-1.671	32.482	26.131	.0912	1438.75
48.0	-1.672	32.485	26.134	.0931	1438.77
49.0	-1.670	32.484	26.132	.0949	1438.79
50.0	-1.670	32.487	26.135	.0968	1438.81
51.0	-1.669	32.486	26.134	.0987	1438.83
52.0	-1.666	32.487	26.135	.1005	1438.86
53.0	-1.665	32.492	26.139	.1024	1438.89
54.0	-1.662	32.494	26.140	.1042	1438.92

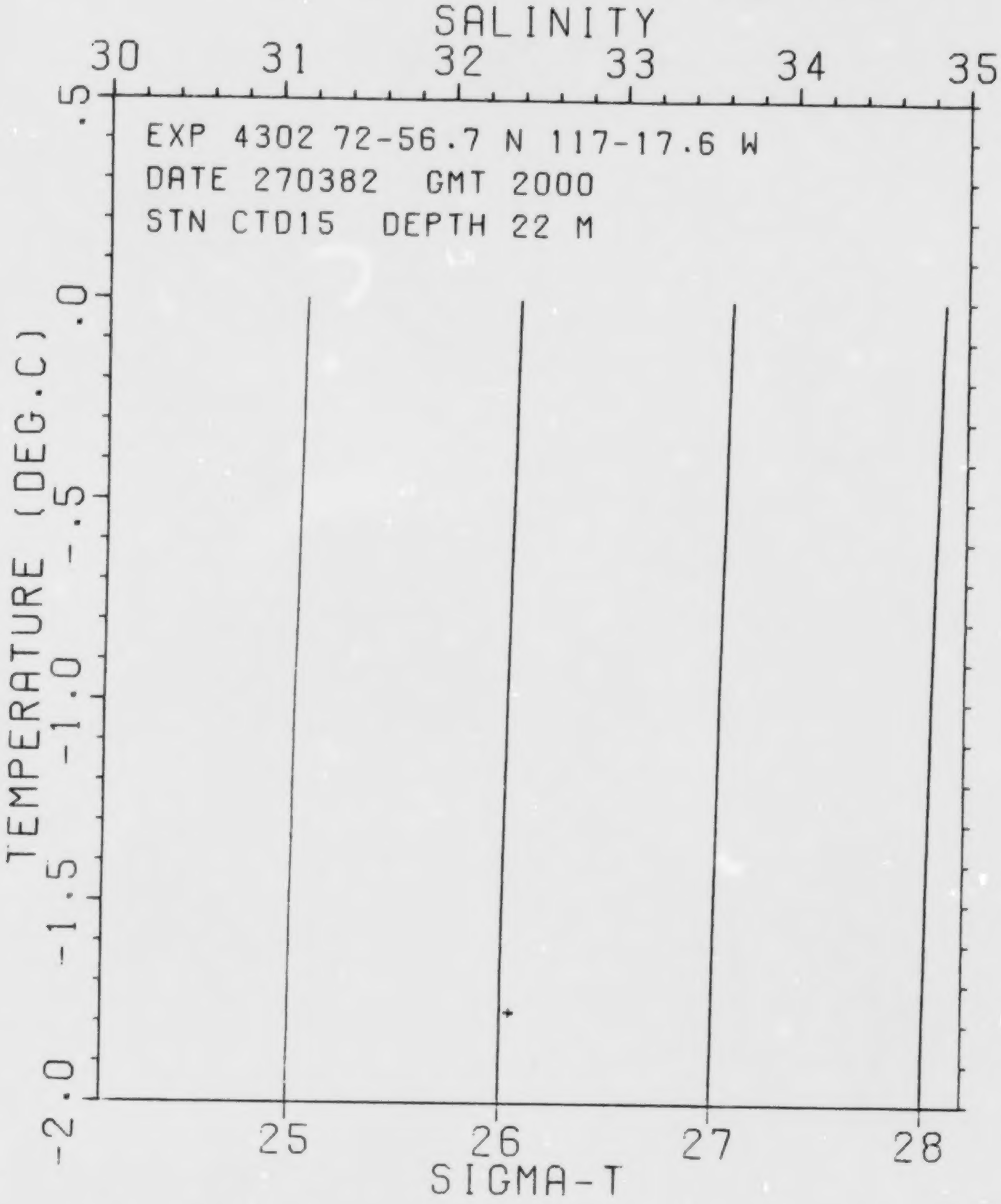
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
55.0	-1.660	32.499	26.145	.1061	1438.96
56.0	-1.659	32.501	26.146	.1080	1438.98
57.0	-1.655	32.509	26.152	.1098	1439.03
58.0	-1.656	32.511	26.154	.1116	1439.04
59.0	-1.654	32.513	26.156	.1135	1439.07
60.0	-1.651	32.513	26.156	.1153	1439.10
61.0	-1.651	32.518	26.159	.1172	1439.13
62.0	-1.649	32.522	26.163	.1190	1439.16
63.0	-1.648	32.525	26.166	.1209	1439.18
64.0	-1.646	32.526	26.166	.1227	1439.21
64.7	-1.644	32.535	26.173	.1239	1439.24

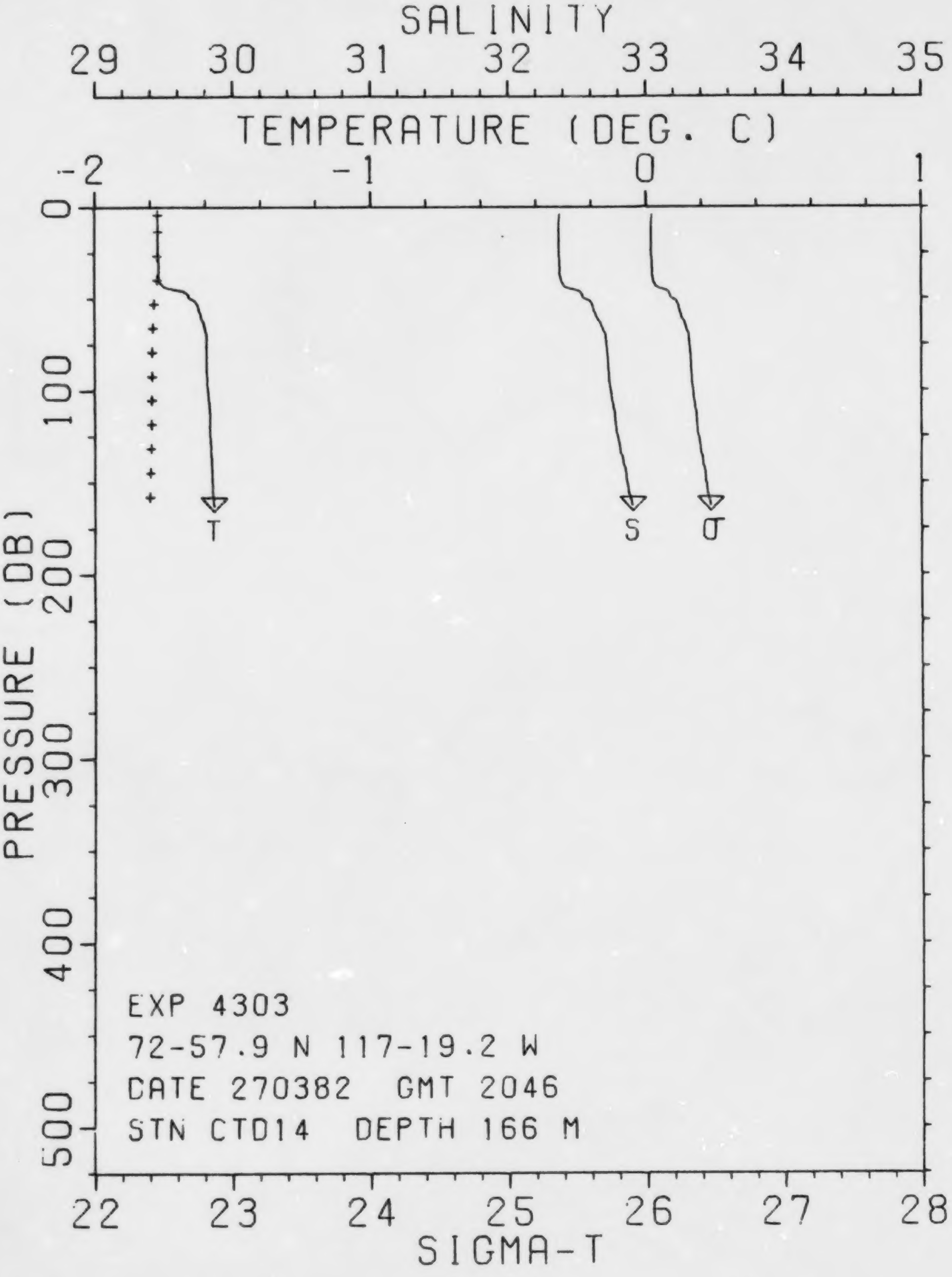

SALINITY
30
31
32
33
34
35
.5
.0
-.5
-1.0
-1.5
-2.0
TEMPERATURE (DEG.C)
EXP 4301 72-50.7 N 117-54.4 W
DATE 260382 GMT 1901
STN CTD08 DEPTH 69 M
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4302
72-56.7 N 117-17.6 W
DATE 270382 GMT 2000
STN CTD15 DEPTH 22 M
SIGMA-T
22
23
24
25
26
27
28

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD15 EXPERIMENT NO. 4302 DATE 270382 GMT 2000
LAT. 72-56.7 N LONG. 117-17.6 W
WATER DEPTH 22.0 M ICE THICKNESS 1.5 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
4.5	-1.776	32.372	26.044	.0089	1437.40
5.0	-1.776	32.391	26.059	.0099	1437.44
6.0	-1.775	32.393	26.061	.0119	1437.46
7.0	-1.776	32.394	26.061	.0138	1437.47
8.0	-1.776	32.394	26.062	.0157	1437.49
9.0	-1.776	32.395	26.062	.0177	1437.51
10.0	-1.776	32.396	26.063	.0196	1437.52
11.0	-1.775	32.396	26.063	.0215	1437.54
12.0	-1.776	32.398	26.065	.0235	1437.56
13.0	-1.776	32.398	26.065	.0254	1437.58
14.0	-1.776	32.398	26.065	.0273	1437.59
15.0	-1.774	32.396	26.063	.0293	1437.62
16.0	-1.775	32.397	26.064	.0312	1437.63
17.0	-1.774	32.397	26.064	.0331	1437.65
18.0	-1.774	32.396	26.063	.0351	1437.66
19.0	-1.775	32.397	26.064	.0370	1437.68
20.0	-1.775	32.398	26.065	.0390	1437.70
21.0	-1.774	32.397	26.064	.0409	1437.71
21.3	-1.775	32.397	26.064	.0415	1437.72

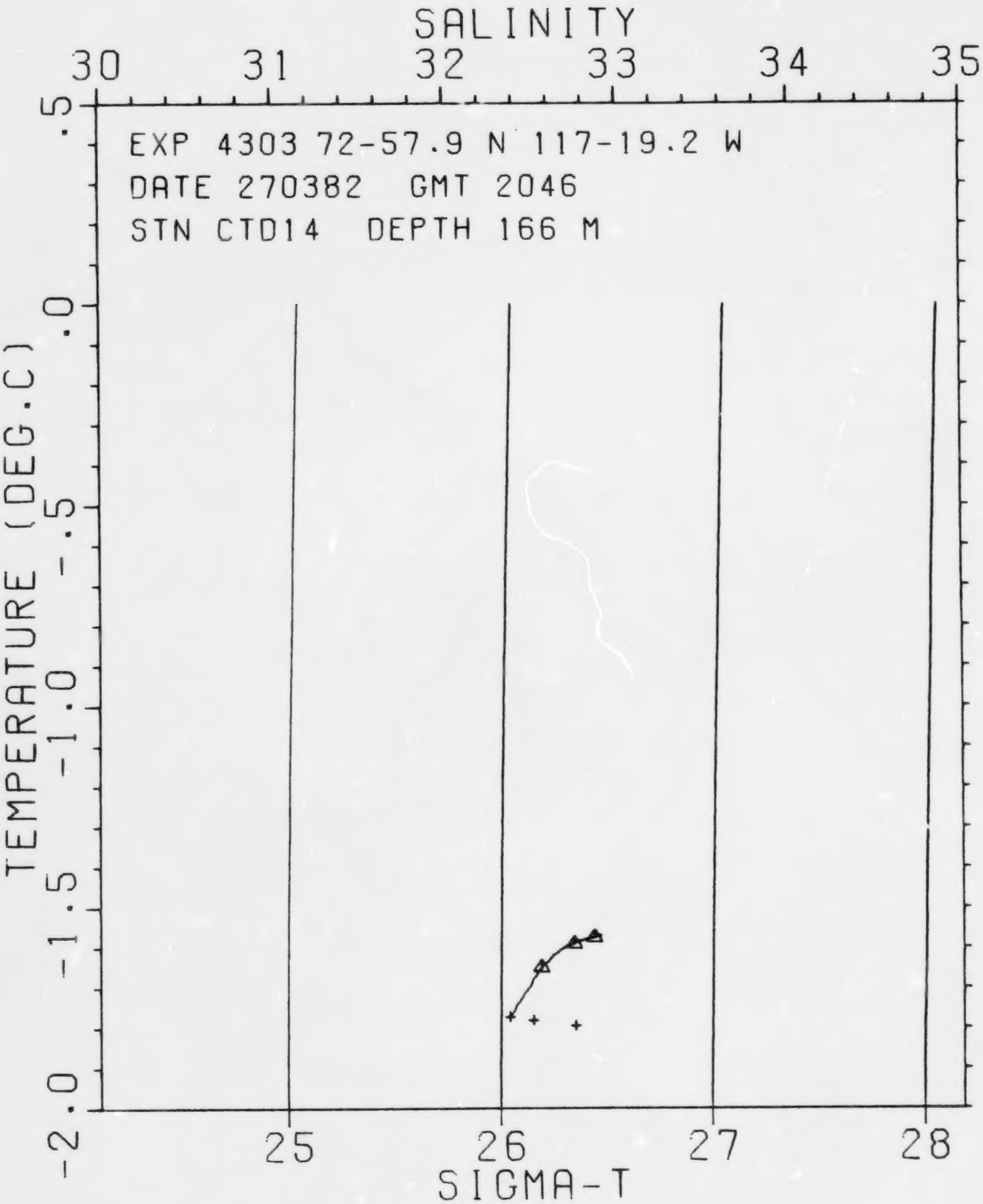

SALINITY
30
31
32
33
34
35
EXP 4302 72-56.7 N 117-17.6 W
DATE 270382 GMT 2000
STN CTD15 DEPTH 22 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

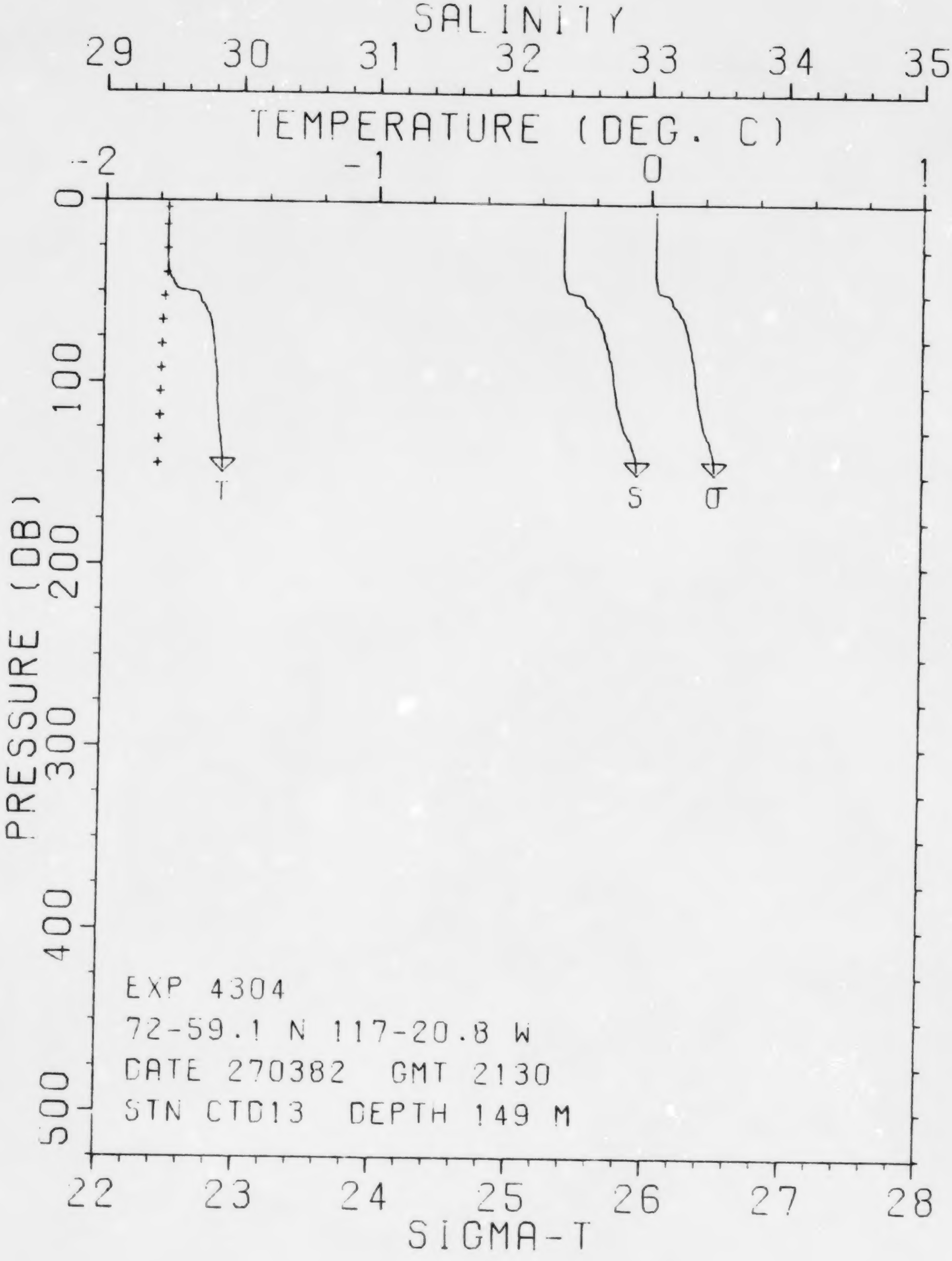

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
0
100
200
300
400
500
PRESSURE (DB)
T
S
σ
EXP 4303
72-57.9 N 117-19.2 W
DATE 270382 GMT 2046
STN CTD14 DEPTH 166 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD14 EXPERIMENT NO. 4303 DATE 270382 GMT 2046
LAT. 72-57.9 N LONG. 117-19.2 W
WATER DEPTH 165.5 M ICE THICKNESS 1.7 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
4.0	-1.772	32.370	26.042	.0079	1437.41
5.0	-1.772	32.368	26.041	.0098	1437.42
6.0	-1.771	32.368	26.040	.0117	1437.44
7.0	-1.770	32.366	26.039	.0137	1437.46
8.0	-1.771	32.365	26.038	.0156	1437.47
9.0	-1.771	32.364	26.037	.0176	1437.49
10.0	-1.771	32.365	26.038	.0196	1437.50
11.0	-1.771	32.364	26.037	.0215	1437.52
12.0	-1.770	32.363	26.037	.0235	1437.54
13.0	-1.770	32.363	26.037	.0254	1437.55
14.0	-1.771	32.365	26.038	.0274	1437.57
15.0	-1.770	32.364	26.037	.0294	1437.59
16.0	-1.772	32.365	26.038	.0313	1437.60
17.0	-1.771	32.365	26.038	.0333	1437.62
18.0	-1.772	32.365	26.038	.0352	1437.63
19.0	-1.770	32.364	26.037	.0372	1437.65
20.0	-1.770	32.364	26.037	.0392	1437.67
21.0	-1.770	32.362	26.035	.0411	1437.68
22.0	-1.770	32.365	26.038	.0431	1437.70
23.0	-1.770	32.364	26.037	.0450	1437.72
24.0	-1.771	32.365	26.038	.0470	1437.73
25.0	-1.771	32.365	26.038	.0490	1437.75
27.5	-1.770	32.367	26.040	.0539	1437.80
30.0	-1.769	32.371	26.043	.0587	1437.85
32.5	-1.767	32.371	26.043	.0636	1437.90
35.0	-1.768	32.374	26.046	.0685	1437.94
37.5	-1.768	32.372	26.044	.0734	1437.98
40.0	-1.765	32.383	26.053	.0782	1438.05
42.5	-1.753	32.401	26.067	.0831	1438.17
45.0	-1.706	32.472	26.124	.0879	1438.54
47.5	-1.661	32.537	26.176	.0925	1438.88
50.0	-1.650	32.555	26.190	.0970	1439.00
55.0	-1.623	32.617	26.240	.1059	1439.30
60.0	-1.615	32.641	26.259	.1147	1439.45
65.0	-1.602	32.676	26.287	.1234	1439.65
70.0	-1.593	32.706	26.311	.1319	1439.81
75.0	-1.595	32.713	26.317	.1403	1439.89
80.0	-1.594	32.720	26.322	.1488	1439.99
85.0	-1.594	32.722	26.324	.1572	1440.07
90.0	-1.595	32.729	26.330	.1656	1440.16
95.0	-1.592	32.734	26.334	.1740	1440.26
100.0	-1.591	32.744	26.342	.1823	1440.37
105.0	-1.588	32.751	26.348	.1906	1440.47

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
110.0	-1.584	32.764	26.358	.1989	1440.59
115.0	-1.583	32.775	26.367	.2071	1440.69
120.0	-1.584	32.782	26.372	.2153	1440.78
125.0	-1.583	32.792	26.381	.2234	1440.88
130.0	-1.580	32.810	26.395	.2315	1441.00
135.0	-1.580	32.817	26.401	.2396	1441.10
140.0	-1.576	32.835	26.416	.2475	1441.22
141.0	-1.576	32.837	26.417	.2491	1441.24
142.0	-1.576	32.843	26.422	.2507	1441.26
143.0	-1.576	32.850	26.428	.2523	1441.29
144.0	-1.575	32.851	26.428	.2539	1441.31
145.0	-1.575	32.856	26.433	.2555	1441.34
146.0	-1.574	32.855	26.432	.2570	1441.36
147.0	-1.574	32.857	26.433	.2586	1441.37
148.0	-1.575	32.858	26.434	.2602	1441.39
149.0	-1.575	32.858	26.434	.2618	1441.41
150.0	-1.576	32.861	26.437	.2633	1441.42
151.0	-1.574	32.866	26.441	.2649	1441.45
152.0	-1.572	32.867	26.441	.2665	1441.46
153.0	-1.573	32.868	26.442	.2680	1441.49
154.0	-1.573	32.872	26.445	.2696	1441.51
155.0	-1.574	32.873	26.446	.2712	1441.53
156.0	-1.572	32.872	26.445	.2727	1441.55
157.0	-1.573	32.881	26.453	.2743	1441.56
158.0	-1.572	32.884	26.455	.2758	1441.60
159.0	-1.570	32.887	26.458	.2774	1441.63
160.0	-1.570	32.892	26.461	.2789	1441.66
161.0	-1.569	32.897	26.465	.2805	1441.68
162.0	-1.566	32.896	26.465	.2820	1441.70
162.9	-1.567	32.907	26.474	.2835	1441.74

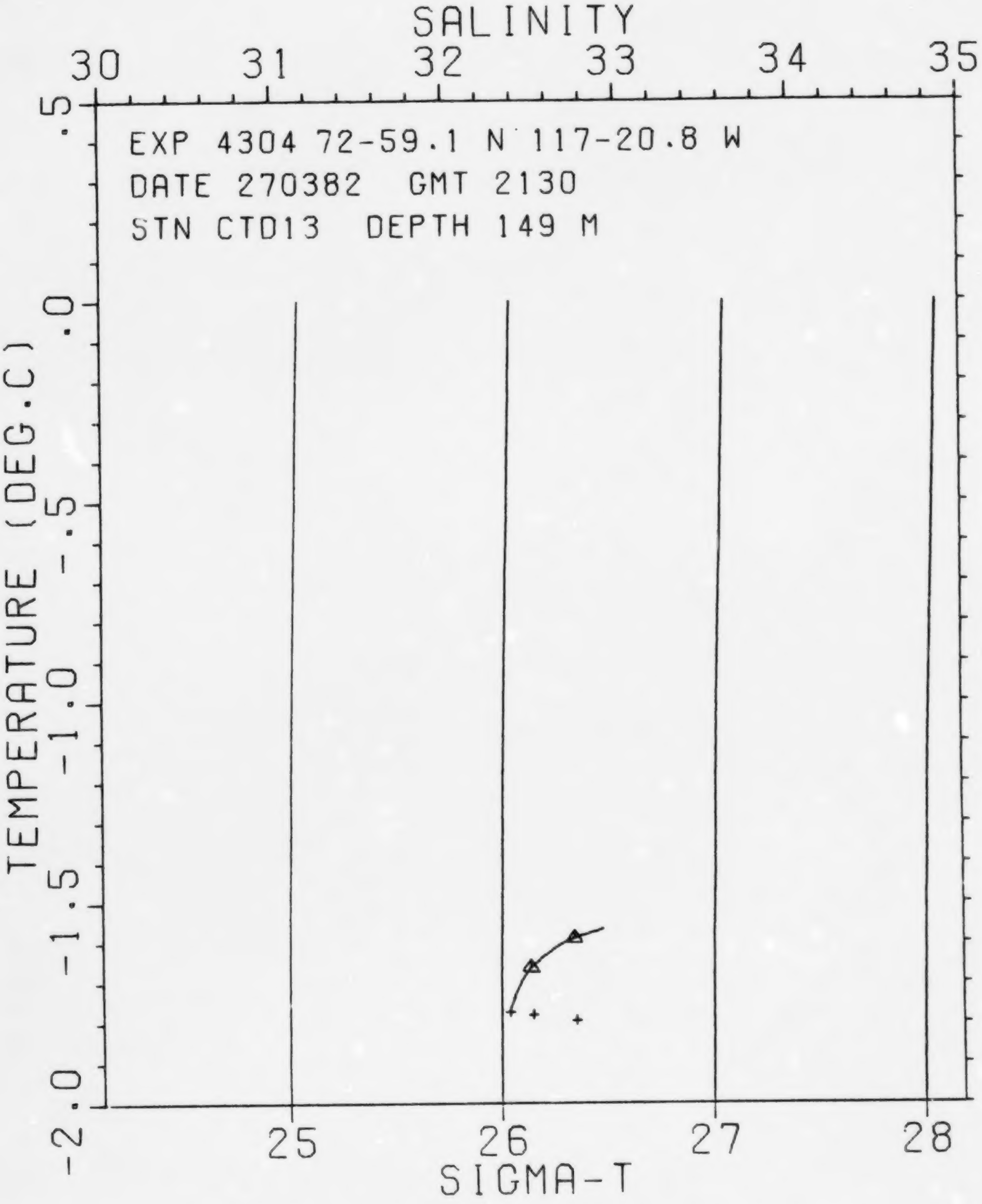

SALINITY
30
31
32
33
34
35
EXP 4303 72-57.9 N 117-19.2 W
DATE 270382 GMT 2046
STN CTD14 DEPTH 166 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

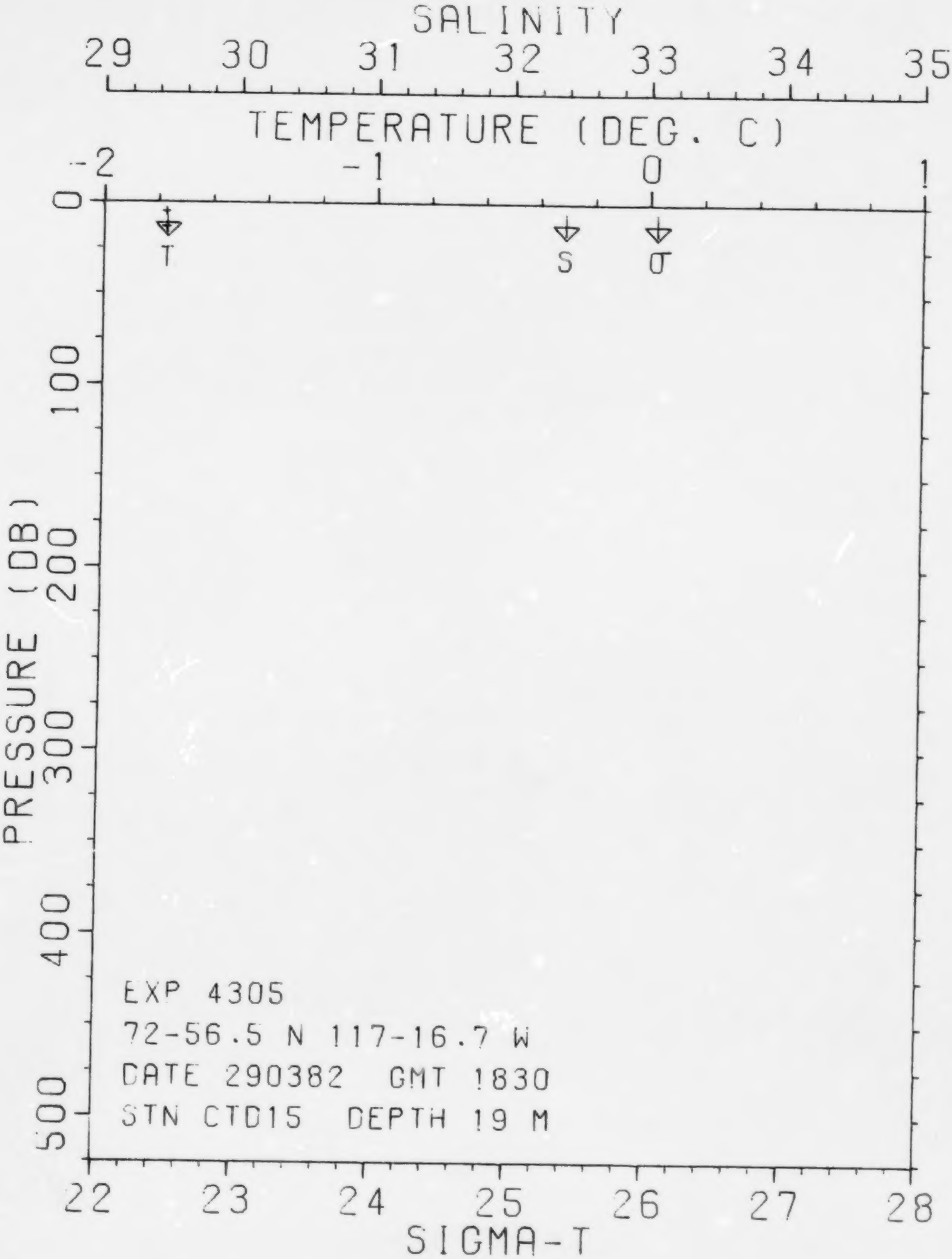

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4304
72-59.1 N 117-20.8 W
DATE 270382 GMT 2130
STN CTD13 DEPTH 149 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD13 EXPERIMENT NO. 4304 DATE 270382 GMT 2130
LAT. 72-59.1 N LONG. 117-20.8 W
WATER DEPTH 149.2 M ICE THICKNESS 1.7 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
3.6	-1.772	32.368	26.040	.0070	1437.40
4.0	-1.772	32.368	26.040	.0078	1437.40
5.0	-1.770	32.365	26.038	.0098	1437.43
6.0	-1.773	32.366	26.039	.0117	1437.43
7.0	-1.771	32.365	26.038	.0137	1437.46
8.0	-1.771	32.365	26.038	.0157	1437.47
9.0	-1.771	32.366	26.038	.0176	1437.49
10.0	-1.772	32.366	26.039	.0196	1437.50
11.0	-1.771	32.366	26.039	.0215	1437.52
12.0	-1.772	32.366	26.039	.0235	1437.53
13.0	-1.771	32.365	26.038	.0255	1437.55
14.0	-1.772	32.366	26.039	.0274	1437.57
15.0	-1.771	32.366	26.038	.0294	1437.59
16.0	-1.772	32.367	26.039	.0313	1437.60
17.0	-1.772	32.366	26.039	.0333	1437.62
18.0	-1.772	32.367	26.040	.0352	1437.63
19.0	-1.772	32.366	26.039	.0372	1437.65
20.0	-1.771	32.366	26.038	.0392	1437.67
21.0	-1.771	32.365	26.038	.0411	1437.69
22.0	-1.772	32.367	26.040	.0431	1437.70
23.0	-1.772	32.366	26.039	.0450	1437.72
24.0	-1.771	32.363	26.036	.0470	1437.73
25.0	-1.772	32.366	26.039	.0490	1437.75
27.5	-1.771	32.366	26.039	.0538	1437.79
30.0	-1.772	32.367	26.040	.0587	1437.83
32.5	-1.771	32.366	26.039	.0636	1437.87
35.0	-1.771	32.367	26.039	.0685	1437.91
37.5	-1.769	32.367	26.039	.0734	1437.97
40.0	-1.768	32.369	26.041	.0783	1438.01
42.5	-1.758	32.375	26.046	.0832	1438.11
45.0	-1.748	32.385	26.054	.0880	1438.21
47.5	-1.737	32.391	26.058	.0929	1438.31
50.0	-1.664	32.488	26.135	.0977	1438.84
55.0	-1.647	32.532	26.171	.1069	1439.06
60.0	-1.627	32.591	26.219	.1159	1439.33
65.0	-1.612	32.633	26.253	.1248	1439.54
70.0	-1.604	32.661	26.275	.1335	1439.70
75.0	-1.601	32.670	26.282	.1421	1439.80
80.0	-1.598	32.697	26.304	.1506	1439.94
85.0	-1.594	32.709	26.314	.1591	1440.06
90.0	-1.591	32.727	26.328	.1675	1440.18
95.0	-1.587	32.736	26.335	.1759	1440.29
100.0	-1.589	32.742	26.340	.1843	1440.37

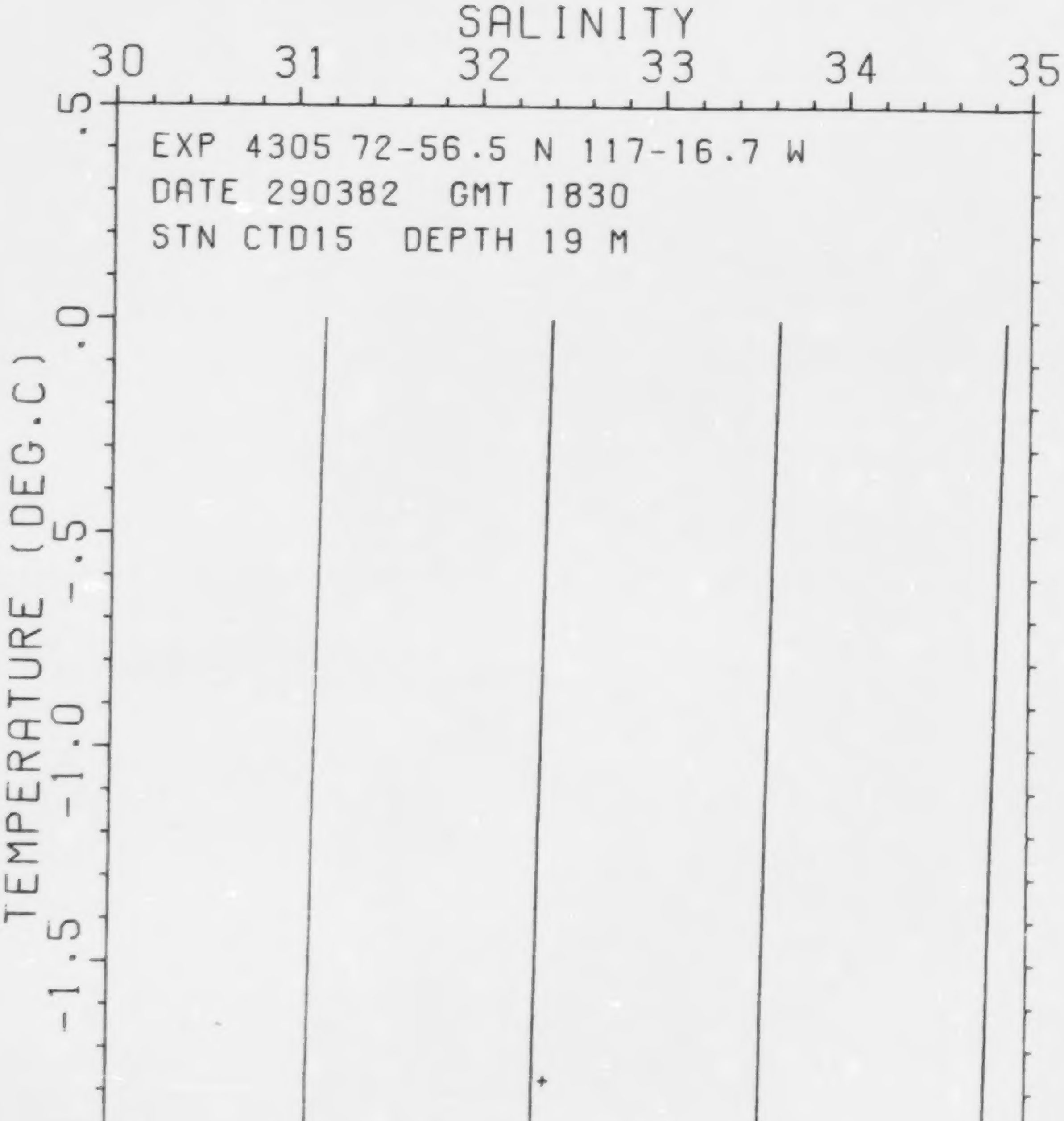
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
105.0	-1.587	32.754	26.350	.1926	1440.48
110.0	-1.585	32.760	26.355	.2008	1440.58
115.0	-1.582	32.780	26.371	.2090	1440.70
120.0	-1.581	32.798	26.385	.2172	1440.81
124.0	-1.579	32.812	26.397	.2237	1440.91
125.0	-1.580	32.814	26.398	.2253	1440.93
126.0	-1.578	32.819	26.402	.2269	1440.96
127.0	-1.577	32.833	26.414	.2285	1441.00
128.0	-1.575	32.838	26.418	.2301	1441.03
129.0	-1.575	32.845	26.423	.2317	1441.06
130.0	-1.574	32.859	26.435	.2332	1441.10
131.0	-1.572	32.866	26.441	.2348	1441.14
132.0	-1.571	32.870	26.443	.2364	1441.16
133.0	-1.571	32.872	26.445	.2379	1441.18
134.0	-1.573	32.875	26.448	.2395	1441.19
135.0	-1.569	32.878	26.450	.2411	1441.23
136.0	-1.570	32.885	26.456	.2426	1441.25
137.0	-1.569	32.888	26.458	.2442	1441.28
138.0	-1.568	32.894	26.463	.2457	1441.31
139.0	-1.567	32.897	26.466	.2473	1441.33
140.0	-1.567	32.903	26.470	.2488	1441.36
141.0	-1.567	32.906	26.473	.2503	1441.38
142.0	-1.566	32.906	26.473	.2519	1441.40
143.0	-1.566	32.907	26.474	.2534	1441.42
144.0	-1.566	32.908	26.475	.2550	1441.43
145.0	-1.566	32.908	26.475	.2565	1441.45
146.0	-1.567	32.909	26.476	.2580	1441.47
147.0	-1.565	32.908	26.474	.2596	1441.49
147.4	-1.566	32.908	26.474	.2602	1441.49

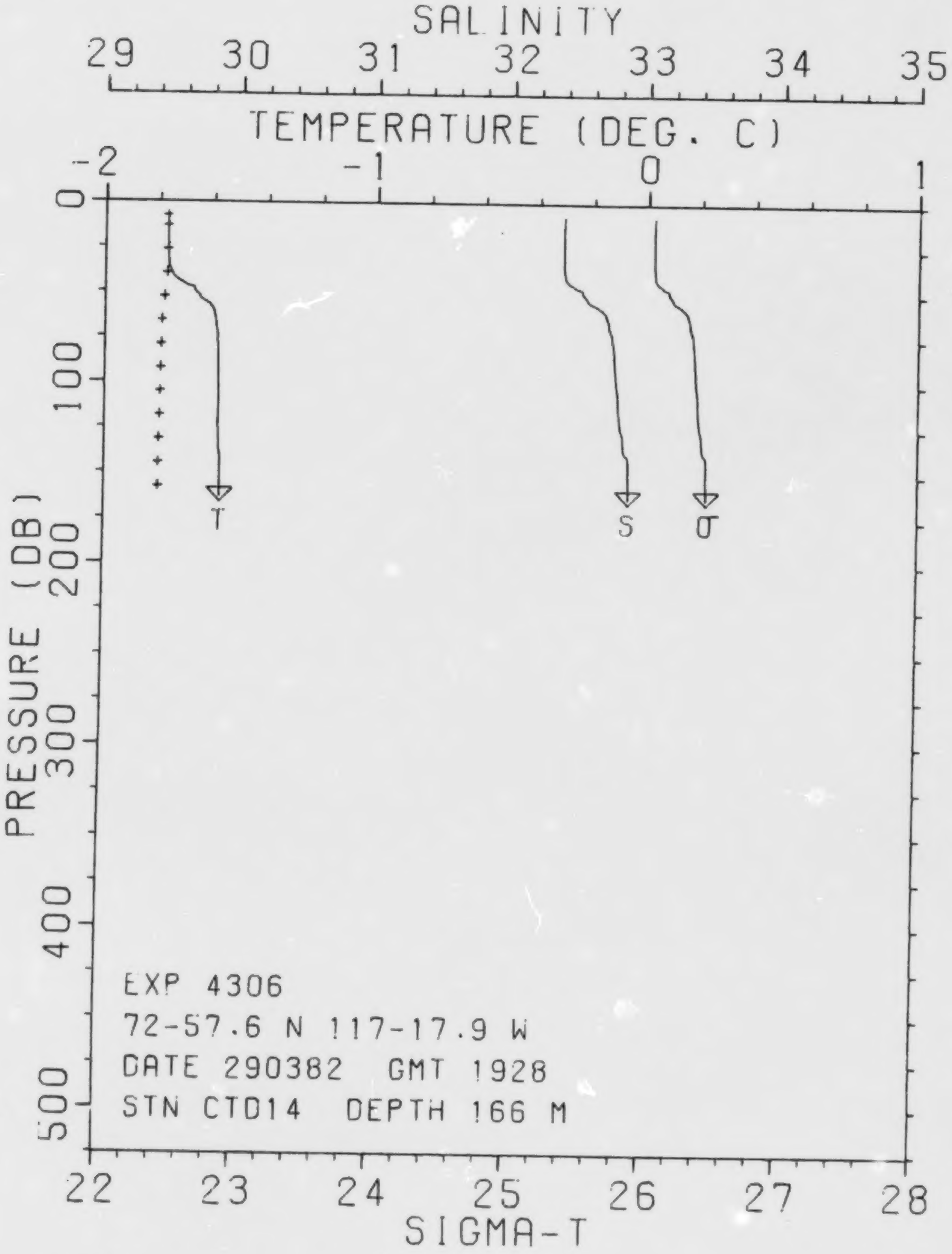

SALINITY
30
31
32
33
34
35
EXP 4304 72-59.1 N 117-20.8 W
DATE 270382 GMT 2130
STN CTD13 DEPTH 149 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
T
S
σ
PRESSURE (DB)
0
100
200
300
400
500
EXP 4305
72-56.5 N 117-16.7 W
DATE 290382 GMT 1830
STN CTD15 DEPTH 19 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD15 EXPERIMENT NO. 4305 DATE 290382 GMT 1830
LAT. 72-56.5 N LONG. 117-16.7 W
WATER DEPTH 19.0 M ICE THICKNESS 1.7 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
4.9	-1.771	32.380	26.050	.0097	1437.44
5.0	-1.771	32.380	26.051	.0098	1437.39
6.0	-1.770	32.381	26.051	.0117	1437.46
7.0	-1.770	32.381	26.051	.0137	1437.48
8.0	-1.769	32.381	26.051	.0156	1437.50
9.0	-1.770	32.382	26.052	.0176	1437.52
10.0	-1.768	32.380	26.050	.0195	1437.54
11.0	-1.767	32.380	26.050	.0214	1437.56
12.0	-1.768	32.381	26.051	.0234	1437.57
13.0	-1.767	32.380	26.050	.0253	1437.59
14.0	-1.767	32.380	26.050	.0273	1437.61
15.0	-1.767	32.380	26.050	.0292	1437.63
16.0	-1.766	32.381	26.051	.0312	1437.65
17.0	-1.766	32.382	26.052	.0331	1437.67
17.3	-1.767	32.381	26.051	.0338	1437.67

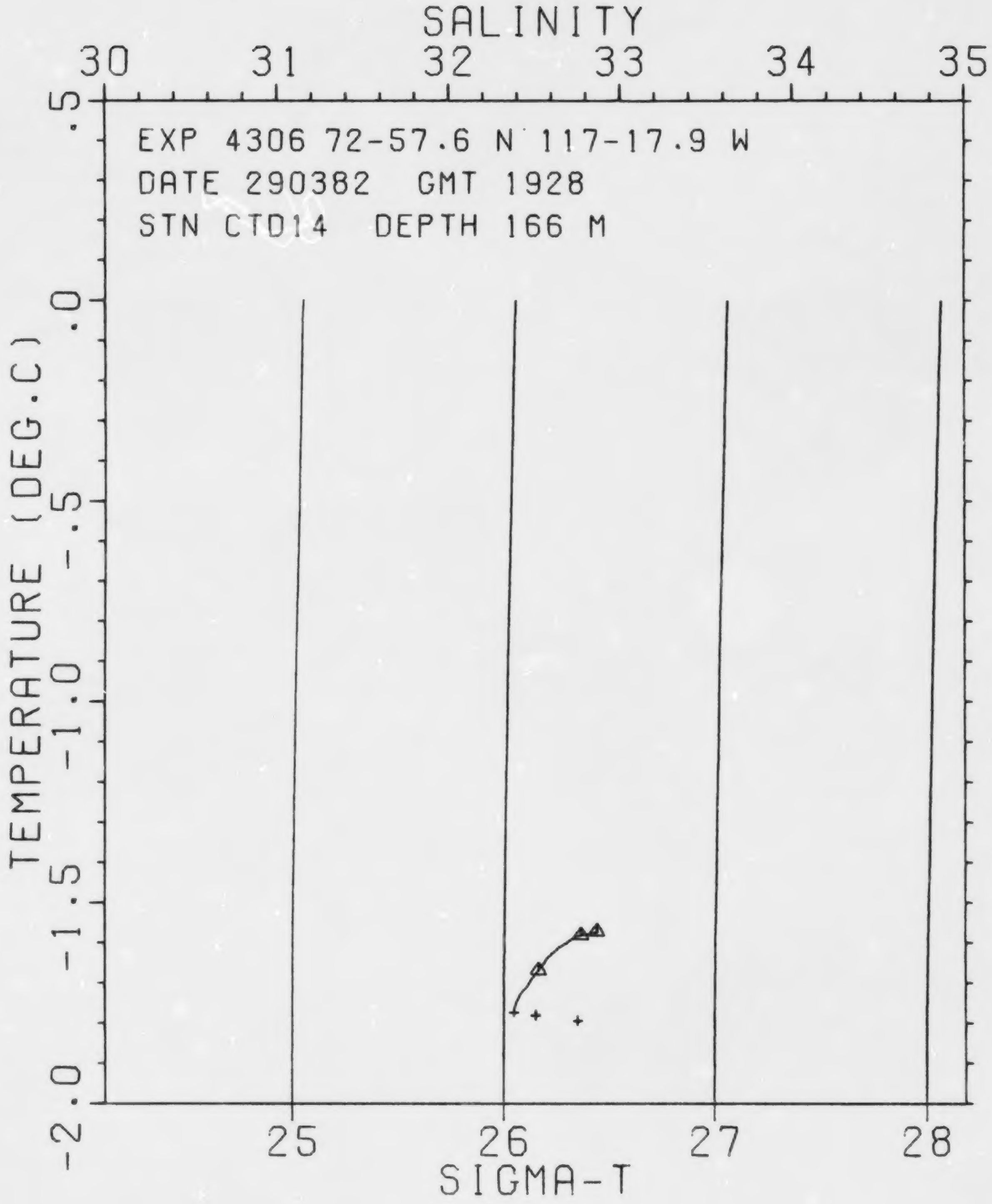

SALINITY
30
31
32
33
34
35
EXP 4305 72-56.5 N 117-16.7 W
DATE 290382 GMT 1830
STN CTD15 DEPTH 19 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

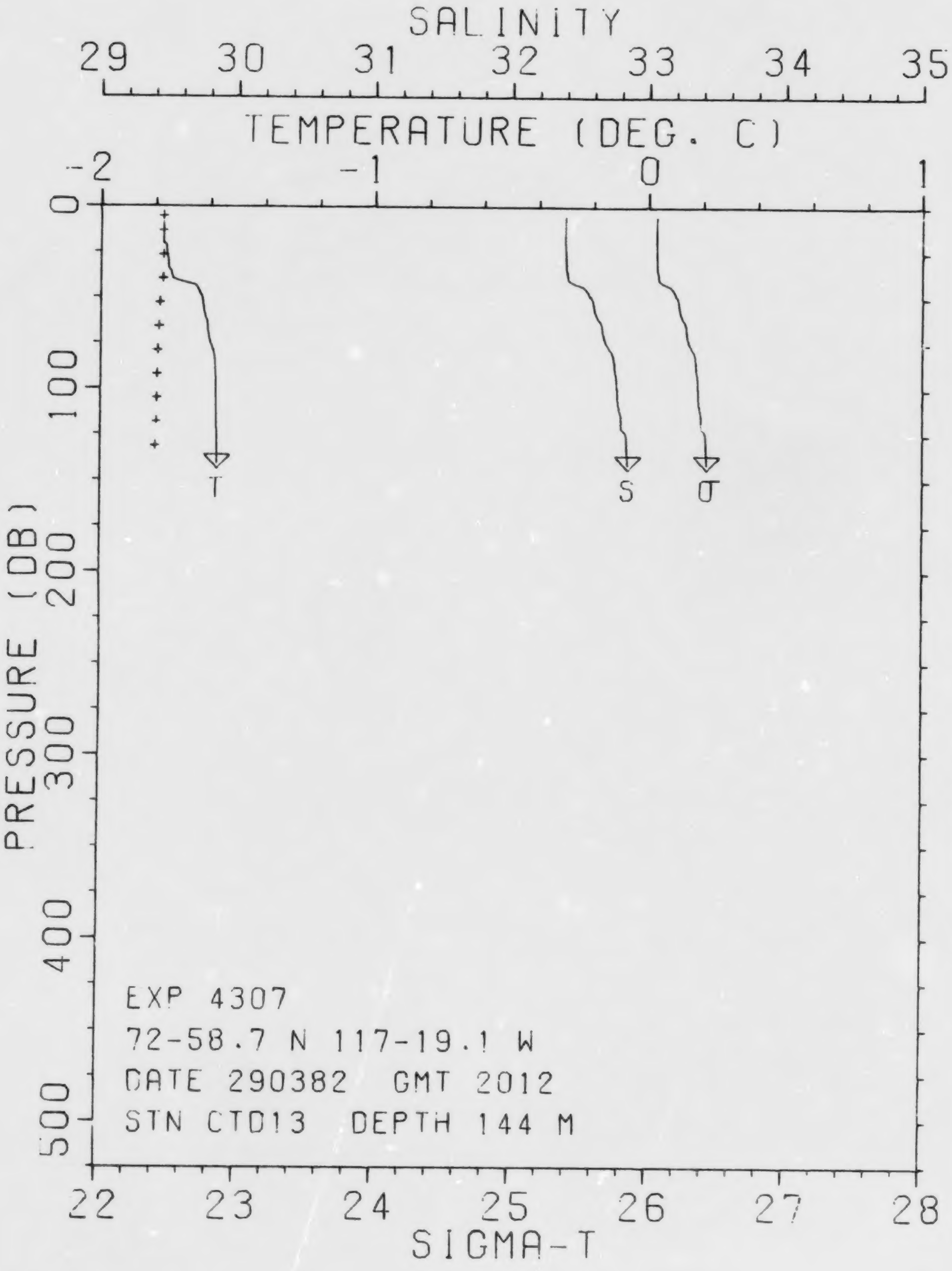

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4306
72-57.6 N 117-17.9 W
DATE 290382 GMT 1928
STN CTD14 DEPTH 166 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD14 EXPERIMENT NO. 4306 DATE 290382 GMT 1928
LAT. 72-57.6 N LONG. 117-17.9 W
WATER DEPTH 166.1 M ICE THICKNESS 1.7 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
7.4	-1.772	32.378	26.049	.0145	1437.48
8.0	-1.771	32.378	26.048	.0156	1437.49
9.0	-1.771	32.378	26.048	.0176	1437.51
10.0	-1.771	32.377	26.048	.0195	1437.52
11.0	-1.771	32.378	26.048	.0215	1437.54
12.0	-1.771	32.379	26.049	.0234	1437.55
13.0	-1.771	32.378	26.048	.0254	1437.57
14.0	-1.771	32.378	26.048	.0273	1437.59
15.0	-1.770	32.377	26.047	.0293	1437.61
16.0	-1.771	32.378	26.048	.0312	1437.62
17.0	-1.771	32.377	26.048	.0332	1437.64
18.0	-1.771	32.378	26.049	.0351	1437.65
19.0	-1.771	32.378	26.048	.0371	1437.67
20.0	-1.772	32.378	26.049	.0390	1437.68
21.0	-1.770	32.377	26.048	.0410	1437.71
22.0	-1.771	32.378	26.048	.0429	1437.72
23.0	-1.771	32.378	26.049	.0449	1437.74
24.0	-1.769	32.377	26.048	.0468	1437.76
25.0	-1.769	32.378	26.048	.0488	1437.78
27.5	-1.770	32.378	26.049	.0536	1437.81
30.0	-1.769	32.378	26.048	.0585	1437.86
32.5	-1.767	32.378	26.049	.0634	1437.91
35.0	-1.768	32.379	26.049	.0683	1437.95
37.5	-1.762	32.382	26.051	.0731	1438.02
40.0	-1.753	32.389	26.057	.0780	1438.12
42.5	-1.744	32.396	26.062	.0828	1438.21
45.0	-1.714	32.440	26.098	.0876	1438.46
47.5	-1.676	32.507	26.151	.0923	1438.77
50.0	-1.668	32.523	26.164	.0969	1438.87
55.0	-1.635	32.579	26.209	.1060	1439.19
60.0	-1.601	32.680	26.290	.1147	1439.58
65.0	-1.593	32.709	26.314	.1232	1439.73
70.0	-1.590	32.724	26.325	.1317	1439.85
75.0	-1.585	32.742	26.340	.1401	1439.98
80.0	-1.583	32.753	26.349	.1484	1440.09
85.0	-1.582	32.756	26.351	.1567	1440.18
90.0	-1.581	32.760	26.355	.1649	1440.27
95.0	-1.581	32.767	26.361	.1732	1440.37
100.0	-1.581	32.772	26.364	.1814	1440.45
105.0	-1.578	32.781	26.372	.1896	1440.56
110.0	-1.579	32.785	26.375	.1978	1440.64
115.0	-1.579	32.788	26.378	.2059	1440.73
120.0	-1.580	32.794	26.383	.2141	1440.82

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
125.0	-1.580	32.804	26.390	.2222	1440.91
130.0	-1.577	32.822	26.405	.2302	1441.03
135.0	-1.577	32.826	26.408	.2382	1441.12
140.0	-1.573	32.860	26.435	.2462	1441.27
141.0	-1.572	32.862	26.437	.2477	1441.29
142.0	-1.572	32.864	26.439	.2493	1441.31
143.0	-1.571	32.863	26.438	.2509	1441.33
144.0	-1.572	32.863	26.438	.2524	1441.35
145.0	-1.573	32.865	26.440	.2540	1441.36
146.0	-1.573	32.866	26.440	.2556	1441.37
147.0	-1.572	32.864	26.439	.2571	1441.39
148.0	-1.573	32.865	26.440	.2587	1441.41
149.0	-1.573	32.865	26.440	.2603	1441.42
150.0	-1.572	32.864	26.439	.2619	1441.44
151.0	-1.572	32.865	26.439	.2634	1441.46
152.0	-1.572	32.865	26.440	.2650	1441.48
153.0	-1.571	32.865	26.440	.2666	1441.50
154.0	-1.572	32.867	26.441	.2681	1441.51
155.0	-1.572	32.868	26.442	.2697	1441.53
156.0	-1.572	32.868	26.442	.2713	1441.55
157.0	-1.572	32.869	26.443	.2728	1441.56
158.0	-1.572	32.869	26.443	.2744	1441.58
159.0	-1.572	32.868	26.442	.2759	1441.60
160.0	-1.572	32.869	26.443	.2775	1441.61
161.0	-1.572	32.869	26.443	.2791	1441.63
162.0	-1.571	32.869	26.443	.2806	1441.65
163.0	-1.572	32.868	26.442	.2822	1441.66
163.7	-1.572	32.869	26.443	.2833	1441.67

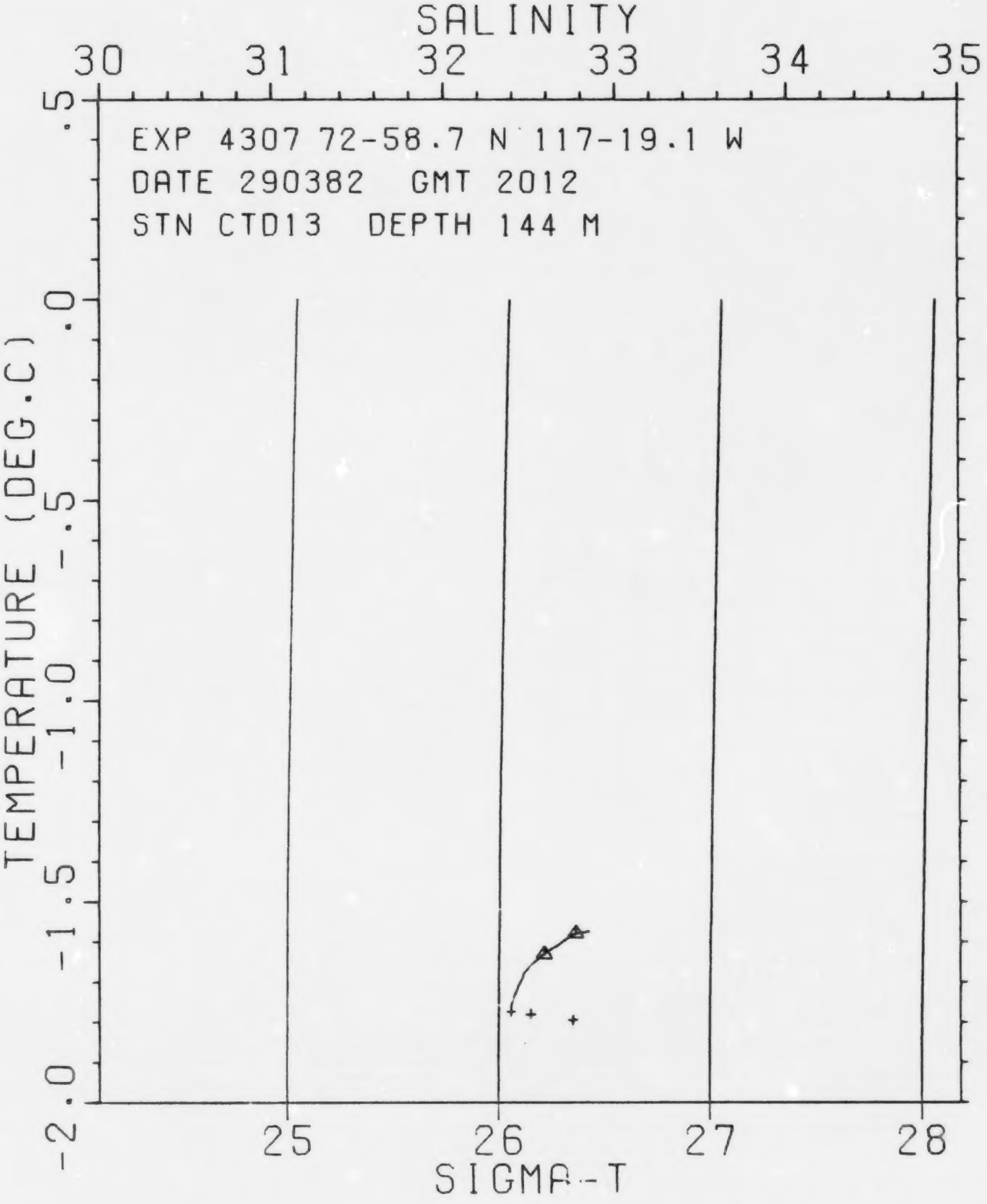

SALINITY
30
31
32
33
34
35
EXP 4306 72-57.6 N 117-17.9 W
DATE 290382 GMT 1928
STN CTD14 DEPTH 166 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

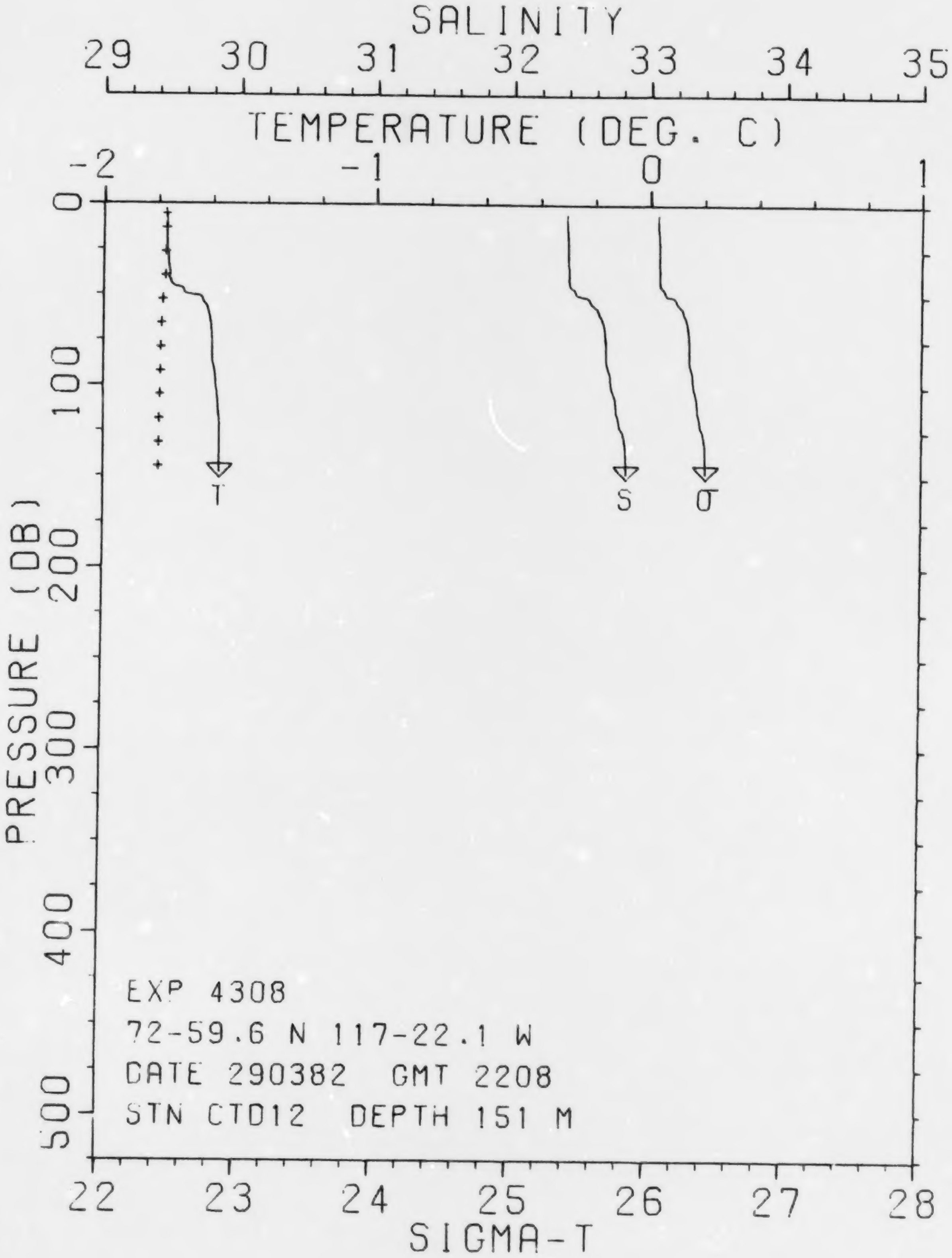

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4307
72-58.7 N 117-19.1 W
DATE 290382 GMT 2012
STN CTD13 DEPTH 144 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD13 EXPERIMENT NO. 4307 DATE 290382 GMT 2012
LAT. 72-58.7 N LONG. 117-19.1 W
WATER DEPTH 143.7 M ICE THICKNESS 1.7 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.1	-1.774	32.389	26.057	.0099	1437.44
6.0	-1.774	32.388	26.057	.0117	1437.46
7.0	-1.774	32.388	26.057	.0136	1437.47
8.0	-1.774	32.388	26.056	.0155	1437.49
9.0	-1.773	32.386	26.055	.0175	1437.51
10.0	-1.774	32.387	26.056	.0194	1437.52
11.0	-1.773	32.387	26.056	.0214	1437.54
12.0	-1.774	32.388	26.056	.0233	1437.56
13.0	-1.774	32.387	26.056	.0253	1437.57
14.0	-1.774	32.387	26.056	.0272	1437.59
15.0	-1.773	32.388	26.057	.0291	1437.61
16.0	-1.773	32.387	26.056	.0311	1437.62
17.0	-1.774	32.388	26.056	.0330	1437.64
18.0	-1.773	32.387	26.056	.0350	1437.66
19.0	-1.774	32.387	26.056	.0369	1437.67
20.0	-1.774	32.388	26.057	.0389	1437.68
21.0	-1.764	32.388	26.057	.0408	1437.75
22.0	-1.761	32.389	26.057	.0427	1437.78
23.0	-1.761	32.389	26.058	.0447	1437.80
24.0	-1.761	32.391	26.059	.0466	1437.82
25.0	-1.760	32.392	26.060	.0486	1437.84
27.5	-1.756	32.393	26.060	.0534	1437.90
30.0	-1.754	32.393	26.060	.0582	1437.95
32.5	-1.755	32.396	26.063	.0631	1437.99
35.0	-1.751	32.397	26.064	.0679	1438.06
37.5	-1.742	32.407	26.071	.0727	1438.15
40.0	-1.735	32.410	26.074	.0775	1438.23
42.5	-1.671	32.482	26.131	.0823	1438.68
45.0	-1.646	32.539	26.177	.0869	1438.92
47.5	-1.639	32.563	26.196	.0914	1439.02
50.0	-1.631	32.565	26.214	.0959	1439.14
55.0	-1.625	32.600	26.226	.1049	1439.26
60.0	-1.619	32.619	26.241	.1137	1439.40
65.0	-1.610	32.658	26.273	.1224	1439.58
70.0	-1.608	32.668	26.280	.1311	1439.69
75.0	-1.600	32.689	26.298	.1397	1439.83
80.0	-1.587	32.733	26.333	.1481	1440.04
85.0	-1.582	32.749	26.345	.1565	1440.17
90.0	-1.582	32.753	26.349	.1648	1440.26
95.0	-1.580	32.765	26.359	.1730	1440.37
100.0	-1.579	32.770	26.363	.1813	1440.46
105.0	-1.578	32.769	26.362	.1895	1440.54
110.0	-1.578	32.782	26.373	.1977	1440.64

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.577	32.797	26.384	.2058	1440.75
118.0	-1.577	32.798	26.386	.2107	1440.80
119.0	-1.577	32.798	26.385	.2123	1440.82
120.0	-1.577	32.798	26.385	.2139	1440.84
121.0	-1.577	32.798	26.385	.2156	1440.85
122.0	-1.577	32.802	26.388	.2172	1440.87
123.0	-1.576	32.822	26.405	.2188	1440.92
124.0	-1.575	32.832	26.413	.2204	1440.96
125.0	-1.575	32.837	26.417	.2220	1440.98
126.0	-1.574	32.836	26.416	.2236	1441.00
127.0	-1.574	32.837	26.417	.2252	1441.02
128.0	-1.574	32.837	26.417	.2268	1441.03
129.0	-1.575	32.840	26.420	.2283	1441.05
130.0	-1.575	32.840	26.420	.2299	1441.07
131.0	-1.574	32.840	26.420	.2315	1441.09
132.0	-1.575	32.841	26.420	.2331	1441.10
133.0	-1.574	32.840	26.420	.2347	1441.12
134.0	-1.574	32.842	26.421	.2363	1441.14
135.0	-1.574	32.842	26.421	.2379	1441.16
136.0	-1.574	32.843	26.422	.2395	1441.17
137.0	-1.574	32.845	26.424	.2410	1441.19
138.0	-1.574	32.848	26.426	.2426	1441.21
139.0	-1.574	32.848	26.426	.2442	1441.23
140.0	-1.573	32.847	26.425	.2458	1441.25
141.0	-1.573	32.847	26.425	.2474	1441.26
141.5	-1.574	32.848	26.426	.2481	1441.27

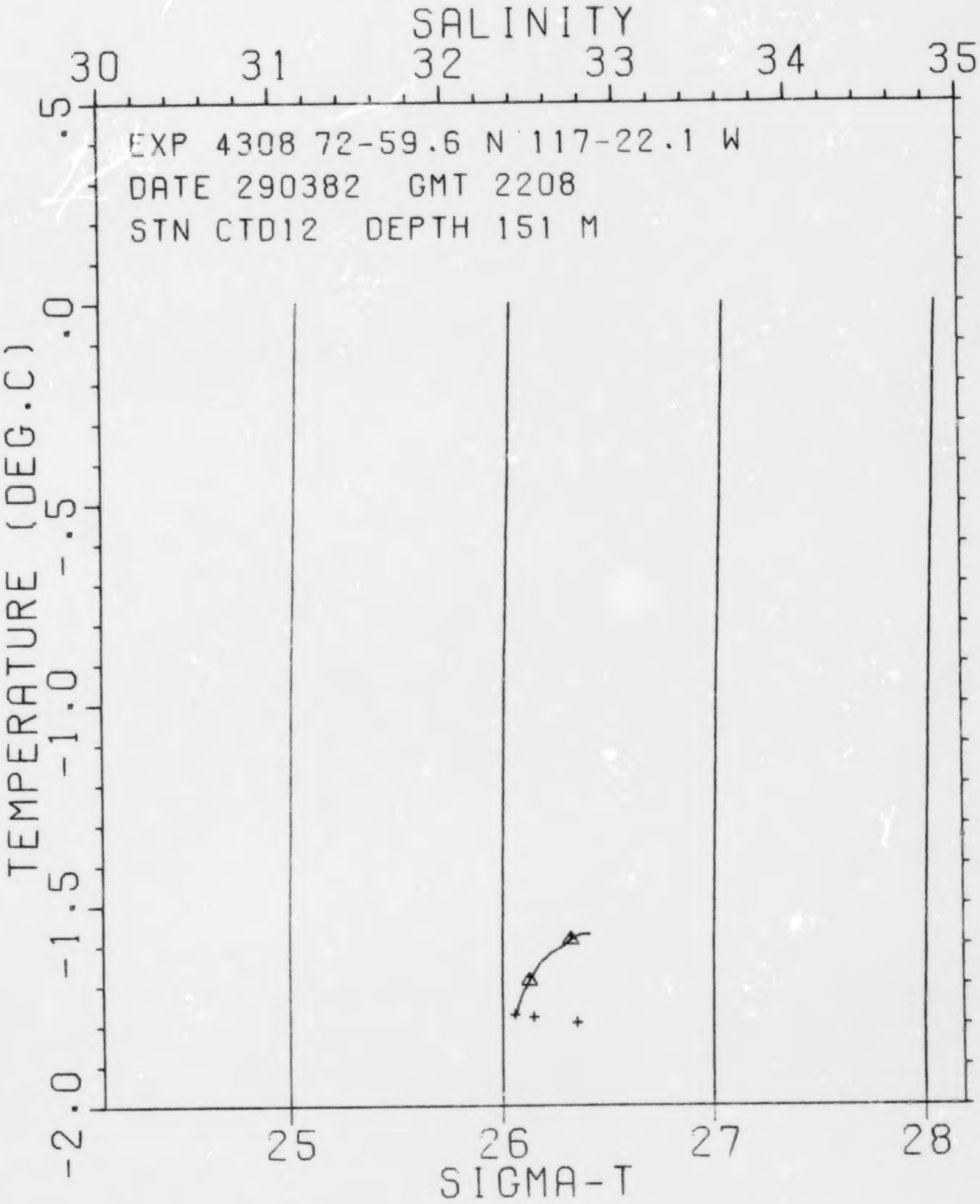

SALINITY
30
31
32
33
34
35
EXP 4307 72-58.7 N 117-19.1 W
DATE 290382 GMT 2012
STN CTD13 DEPTH 144 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

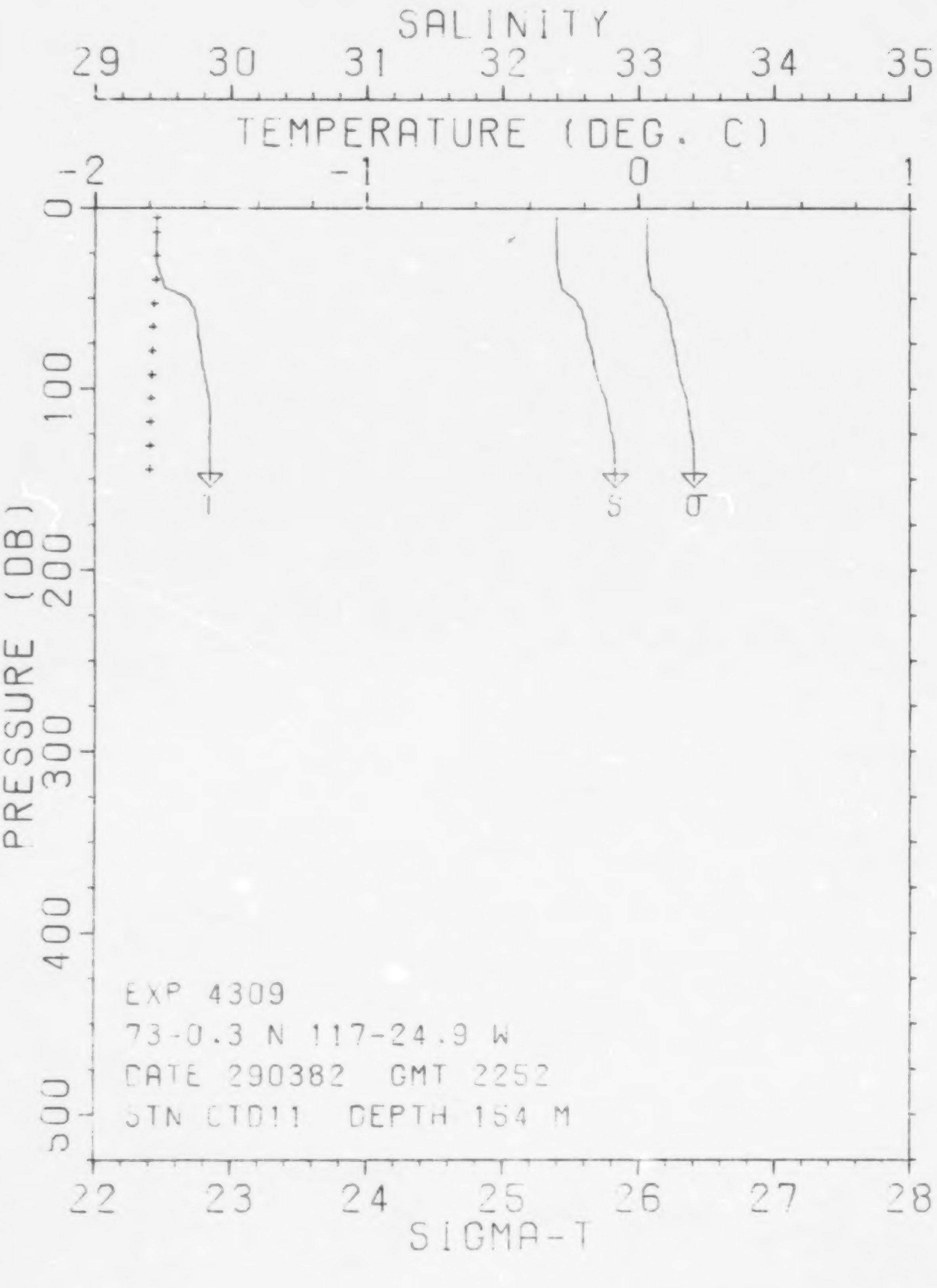

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4308
72-59.6 N 117-22.1 W
DATE 290382 GMT 2208
STN CTD12 DEPTH 151 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD12 EXPERIMENT NO. 4308 DATE 290382 GMT 2208
LAT. 72-59.6 N LONG. 117-22.1 W
WATER DEPTH 150.8 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.3	-1.771	32.389	26.057	.0103	1437.46
6.0	-1.770	32.389	26.058	.0116	1437.48
7.0	-1.769	32.388	26.057	.0136	1437.50
8.0	-1.769	32.389	26.057	.0155	1437.52
9.0	-1.770	32.391	26.059	.0175	1437.53
10.0	-1.771	32.391	26.059	.0194	1437.54
11.0	-1.769	32.391	26.059	.0213	1437.57
12.0	-1.771	32.393	26.061	.0233	1437.58
13.0	-1.770	32.392	26.060	.0252	1437.60
14.0	-1.770	32.393	26.061	.0272	1437.61
15.0	-1.773	32.398	26.065	.0291	1437.63
16.0	-1.772	32.399	26.066	.0310	1437.64
17.0	-1.771	32.399	26.066	.0330	1437.67
18.0	-1.770	32.398	26.065	.0349	1437.69
19.0	-1.771	32.399	26.066	.0368	1437.70
20.0	-1.771	32.401	26.067	.0388	1437.72
21.0	-1.770	32.401	26.068	.0407	1437.74
22.0	-1.770	32.402	26.068	.0426	1437.76
23.0	-1.769	32.401	26.067	.0445	1437.78
24.0	-1.769	32.401	26.067	.0465	1437.79
25.0	-1.770	32.403	26.068	.0484	1437.81
27.5	-1.767	32.404	26.069	.0532	1437.87
30.0	-1.766	32.404	26.070	.0581	1437.91
32.5	-1.764	32.403	26.069	.0629	1437.96
35.0	-1.758	32.407	26.072	.0677	1438.03
37.5	-1.758	32.409	26.074	.0725	1438.08
40.0	-1.758	32.408	26.073	.0773	1438.12
42.5	-1.754	32.412	26.076	.0821	1438.18
45.0	-1.744	32.416	26.079	.0869	1438.28
47.5	-1.706	32.456	26.110	.0917	1438.56
50.0	-1.692	32.475	26.125	.0964	1438.69
55.0	-1.630	32.578	26.208	.1055	1439.21
60.0	-1.615	32.631	26.250	.1143	1439.44
65.0	-1.608	32.658	26.272	.1230	1439.59
70.0	-1.604	32.672	26.284	.1316	1439.71
75.0	-1.601	32.680	26.290	.1402	1439.82
80.0	-1.601	32.681	26.291	.1488	1439.90
85.0	-1.601	32.683	26.293	.1574	1439.99
90.0	-1.595	32.693	26.301	.1659	1440.11
95.0	-1.589	32.714	26.317	.1744	1440.25
100.0	-1.589	32.721	26.323	.1826	1440.34
105.0	-1.582	32.740	26.338	.1912	1440.48
110.0	-1.580	32.752	26.348	.1995	1440.59

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.578	32.759	26.354	.2077	1440.69
120.0	-1.575	32.779	26.370	.2160	1440.82
125.0	-1.575	32.802	26.388	.2241	1440.93
126.0	-1.574	32.806	26.392	.2257	1440.96
127.0	-1.575	32.809	26.394	.2273	1440.98
128.0	-1.575	32.815	26.399	.2290	1441.00
129.0	-1.575	32.818	26.402	.2306	1441.02
130.0	-1.574	32.817	26.401	.2322	1441.04
131.0	-1.575	32.820	26.403	.2338	1441.06
132.0	-1.575	32.824	26.406	.2354	1441.07
133.0	-1.574	32.824	26.407	.2370	1441.10
134.0	-1.574	32.826	26.408	.2386	1441.12
135.0	-1.575	32.828	26.410	.2402	1441.13
136.0	-1.574	32.827	26.409	.2418	1441.15
137.0	-1.574	32.828	26.410	.2434	1441.17
138.0	-1.574	32.828	26.410	.2450	1441.18
139.0	-1.575	32.829	26.410	.2466	1441.20
140.0	-1.575	32.829	26.411	.2482	1441.22
141.0	-1.575	32.830	26.411	.2498	1441.23
142.0	-1.575	32.830	26.412	.2514	1441.25
143.0	-1.575	32.831	26.412	.2529	1441.27
144.0	-1.575	32.830	26.411	.2545	1441.28
145.0	-1.575	32.830	26.411	.2561	1441.30
146.0	-1.575	32.833	26.414	.2577	1441.32
147.0	-1.575	32.831	26.412	.2593	1441.33
148.0	-1.575	32.833	26.414	.2609	1441.35
148.3	-1.575	32.833	26.414	.2614	1441.36


SALINITY
30
31
32
33
34
35
EXP 4308 72-59.6 N 117-22.1 W
DATE 290382 GMT 2208
STN CTD12 DEPTH 151 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

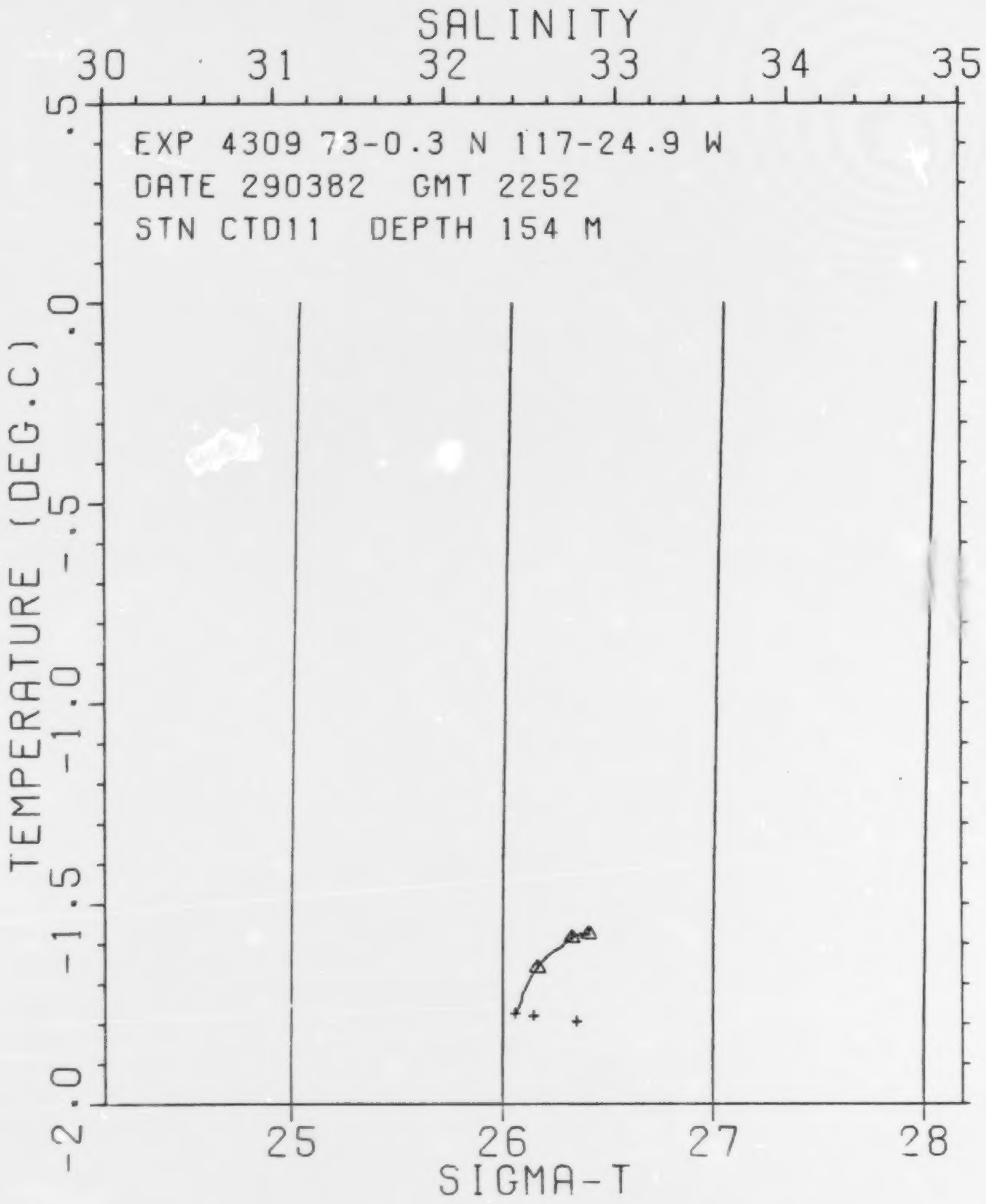


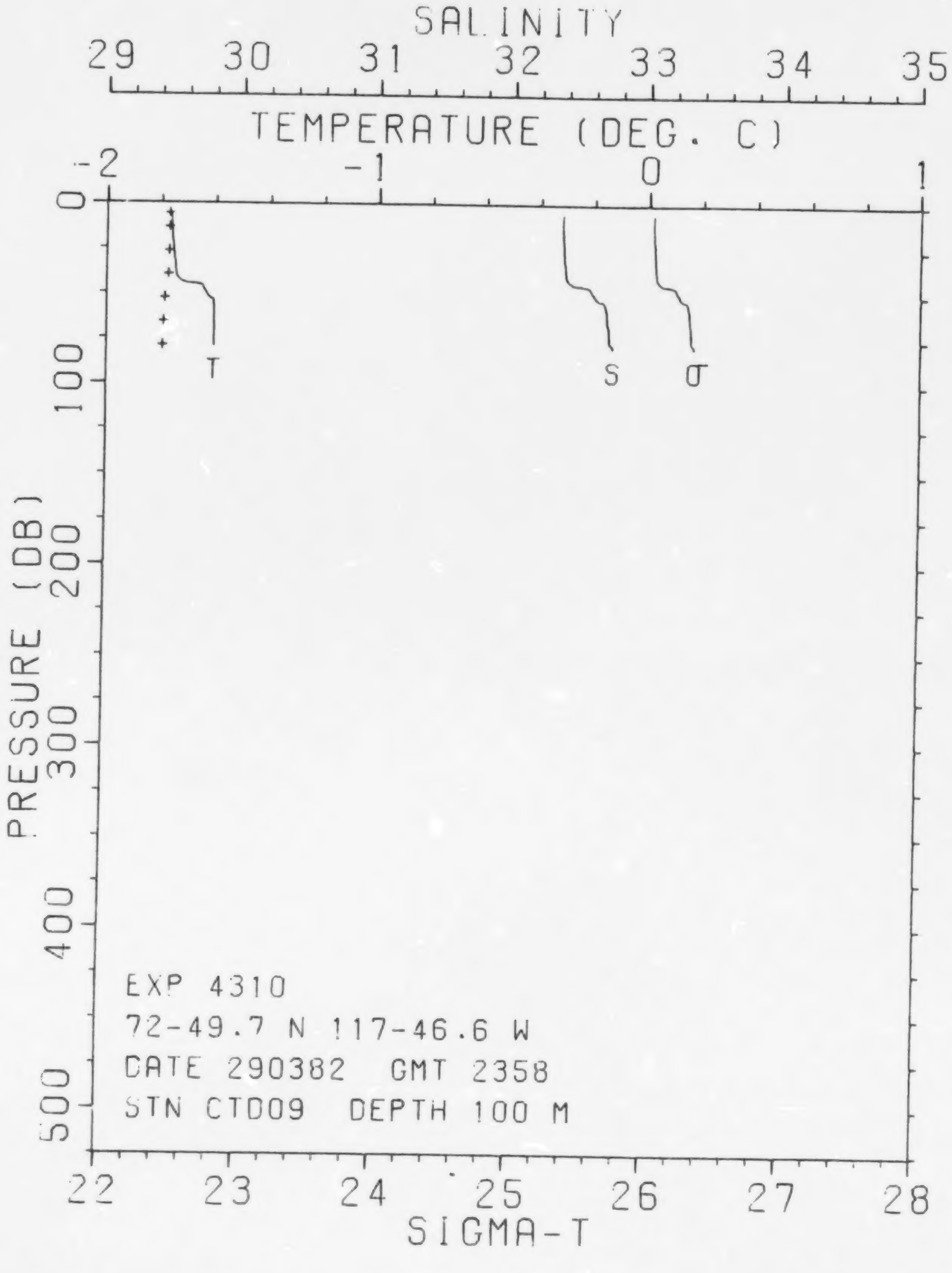
SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4309
73-0.3 N 117-24.9 W
DATE 290382 GMT 2252
STN CTD11 DEPTH 154 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD11 EXPERIMENT NO. 4309 DATE 290382 GMT 2252
LAT. 73-00.3 N LONG. 117-24.9 W
WATER DEPTH 154.2 M ICE THICKNESS 1.6 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
4.9	-1.773	32.393	26.061	.0096	1437.45
5.0	-1.773	32.393	26.061	.0097	1437.43
6.0	-1.774	32.394	26.062	.0116	1437.47
7.0	-1.773	32.394	26.062	.0136	1437.49
8.0	-1.773	32.394	26.062	.0155	1437.50
9.0	-1.775	32.395	26.062	.0174	1437.51
10.0	-1.774	32.395	26.062	.0194	1437.53
11.0	-1.773	32.394	26.061	.0213	1437.55
12.0	-1.774	32.395	26.062	.0233	1437.56
13.0	-1.773	32.394	26.061	.0252	1437.58
14.0	-1.774	32.395	26.063	.0271	1437.60
15.0	-1.774	32.394	26.062	.0291	1437.62
16.0	-1.773	32.394	26.061	.0310	1437.63
17.0	-1.774	32.395	26.062	.0329	1437.65
18.0	-1.773	32.394	26.061	.0349	1437.67
19.0	-1.774	32.396	26.063	.0368	1437.68
20.0	-1.775	32.396	26.063	.0388	1437.69
21.0	-1.774	32.395	26.063	.0407	1437.71
22.0	-1.775	32.396	26.063	.0426	1437.73
23.0	-1.775	32.397	26.064	.0446	1437.74
24.0	-1.774	32.396	26.063	.0465	1437.76
25.0	-1.774	32.397	26.064	.0484	1437.78
27.5	-1.774	32.399	26.065	.0533	1437.83
30.0	-1.772	32.400	26.066	.0581	1437.88
32.5	-1.770	32.405	26.070	.0629	1437.94
35.0	-1.763	32.409	26.074	.0677	1438.01
37.5	-1.758	32.415	26.079	.0725	1438.09
40.0	-1.749	32.427	26.088	.0773	1438.19
42.5	-1.747	32.430	26.090	.0821	1438.24
45.0	-1.731	32.434	26.093	.0868	1438.37
47.5	-1.694	32.475	26.126	.0916	1438.64
50.0	-1.659	32.526	26.166	.0962	1438.92
55.0	-1.637	32.571	26.202	.1053	1439.17
60.0	-1.629	32.591	26.219	.1142	1439.32
65.0	-1.621	32.618	26.240	.1231	1439.47
70.0	-1.620	32.622	26.244	.1319	1439.56
75.0	-1.615	32.646	26.263	.1407	1439.70
80.0	-1.610	32.662	26.276	.1493	1439.84
65.0	-1.605	32.673	26.284	.1579	1439.95
90.0	-1.599	32.689	26.297	.1665	1440.09
95.0	-1.593	32.704	26.309	.1750	1440.22
100.0	-1.587	32.729	26.330	.1834	1440.36
105.0	-1.580	32.760	26.354	.1918	1440.52

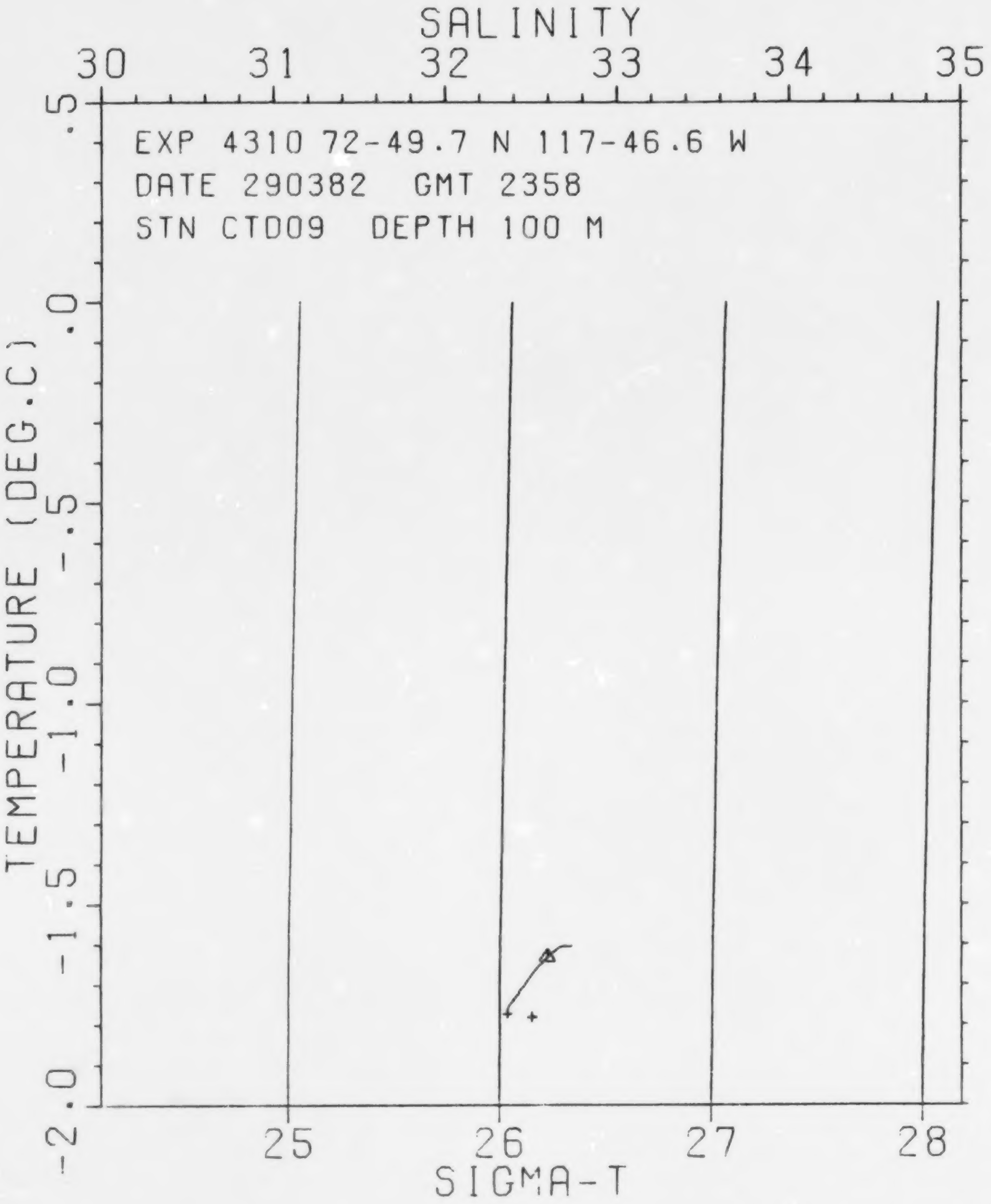
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
110.0	-1.577	32.771	26.363	.2000	1440.63
115.0	-1.576	32.784	26.374	.2082	1440.74
120.0	-1.576	32.791	26.379	.2163	1440.83
125.0	-1.577	32.807	26.393	.2245	1440.93
129.0	-1.578	32.819	26.403	.2309	1441.01
130.0	-1.578	32.821	26.405	.2325	1441.03
131.0	-1.578	32.822	26.405	.2341	1441.04
132.0	-1.576	32.820	26.403	.2357	1441.07
133.0	-1.577	32.822	26.405	.2373	1441.08
134.0	-1.577	32.824	26.406	.2389	1441.10
135.0	-1.577	32.824	26.406	.2405	1441.12
136.0	-1.577	32.826	26.408	.2421	1441.14
137.0	-1.578	32.826	26.408	.2437	1441.15
138.0	-1.577	32.824	26.407	.2453	1441.17
139.0	-1.577	32.825	26.407	.2469	1441.19
140.0	-1.577	32.825	26.408	.2485	1441.20
141.0	-1.576	32.825	26.407	.2501	1441.22
142.0	-1.576	32.826	26.408	.2517	1441.24
143.0	-1.577	32.828	26.410	.2533	1441.25
144.0	-1.577	32.828	26.410	.2549	1441.27
145.0	-1.577	32.828	26.410	.2565	1441.29
146.0	-1.577	32.829	26.410	.2581	1441.30
147.0	-1.576	32.827	26.409	.2597	1441.32
148.0	-1.578	32.828	26.410	.2613	1441.33
149.0	-1.577	32.828	26.410	.2629	1441.35
150.0	-1.577	32.828	26.410	.2645	1441.37
151.0	-1.577	32.829	26.410	.2661	1441.38
151.3	-1.577	32.828	26.410	.2666	1441.39

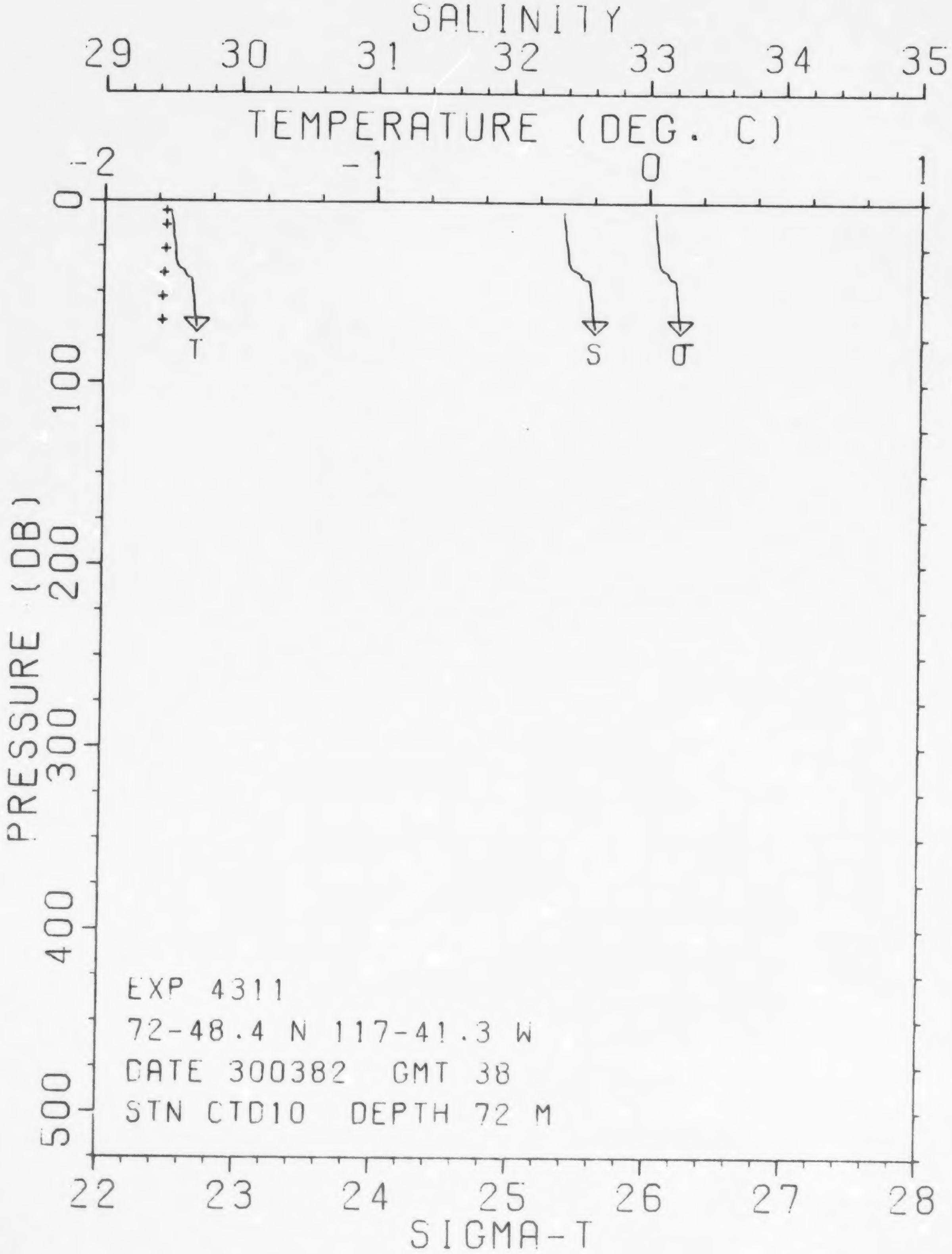

SALINITY
30
31
32
33
34
35
EXP 4309 73-0.3 N 117-24.9 W
DATE 290382 GMT 2252
STN CTD11 DEPTH 154 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4310
72-49.7 N 117-46.6 W
DATE 290382 GMT 2358
STN CTD09 DEPTH 100 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD09 EXPERIMENT NO. 4310 DATE 290382 GMT 2358
LAT. 72-49.7 N LONG. 117-46.6 W
WATER DEPTH 111.0 M ICE THICKNESS 1.7 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.766	32.362	26.036	.0107	1437.45
6.0	-1.765	32.362	26.035	.0118	1437.46
7.0	-1.765	32.361	26.035	.0137	1437.48
8.0	-1.763	32.361	26.035	.0157	1437.50
9.0	-1.763	32.361	26.034	.0177	1437.52
10.0	-1.764	32.361	26.034	.0196	1437.53
11.0	-1.763	32.360	26.033	.0216	1437.55
12.0	-1.763	32.359	26.033	.0236	1437.57
13.0	-1.761	32.359	26.033	.0255	1437.59
14.0	-1.762	32.361	26.035	.0275	1437.61
15.0	-1.763	32.362	26.036	.0294	1437.62
16.0	-1.762	32.364	26.037	.0314	1437.65
17.0	-1.761	32.365	26.038	.0334	1437.66
18.0	-1.760	32.364	26.037	.0353	1437.69
19.0	-1.762	32.366	26.038	.0373	1437.70
20.0	-1.760	32.365	26.038	.0392	1437.72
21.0	-1.759	32.366	26.039	.0412	1437.74
22.0	-1.757	32.371	26.042	.0432	1437.77
23.0	-1.756	32.370	26.042	.0451	1437.80
24.0	-1.756	32.371	26.043	.0471	1437.81
25.0	-1.755	32.370	26.042	.0490	1437.83
27.5	-1.755	32.372	26.044	.0539	1437.88
30.0	-1.753	32.377	26.047	.0588	1437.94
32.5	-1.748	32.378	26.048	.0637	1438.00
35.0	-1.747	32.383	26.052	.0685	1438.05
37.5	-1.747	32.384	26.053	.0734	1438.10
40.0	-1.744	32.389	26.057	.0782	1438.16
42.5	-1.734	32.408	26.072	.0831	1438.27
45.0	-1.679	32.493	26.140	.0678	1438.70
47.5	-1.643	32.573	26.204	.0924	1439.02
50.0	-1.632	32.596	26.223	.0968	1439.15
55.0	-1.605	32.677	26.288	.1056	1439.47
60.0	-1.604	32.692	26.300	.1142	1439.58
65.0	-1.604	32.693	26.301	.1227	1439.66
70.0	-1.604	32.707	26.312	.1312	1439.76
75.0	-1.604	32.707	26.313	.1397	1439.84
79.5	-1.604	32.739	26.338	.1473	1439.96

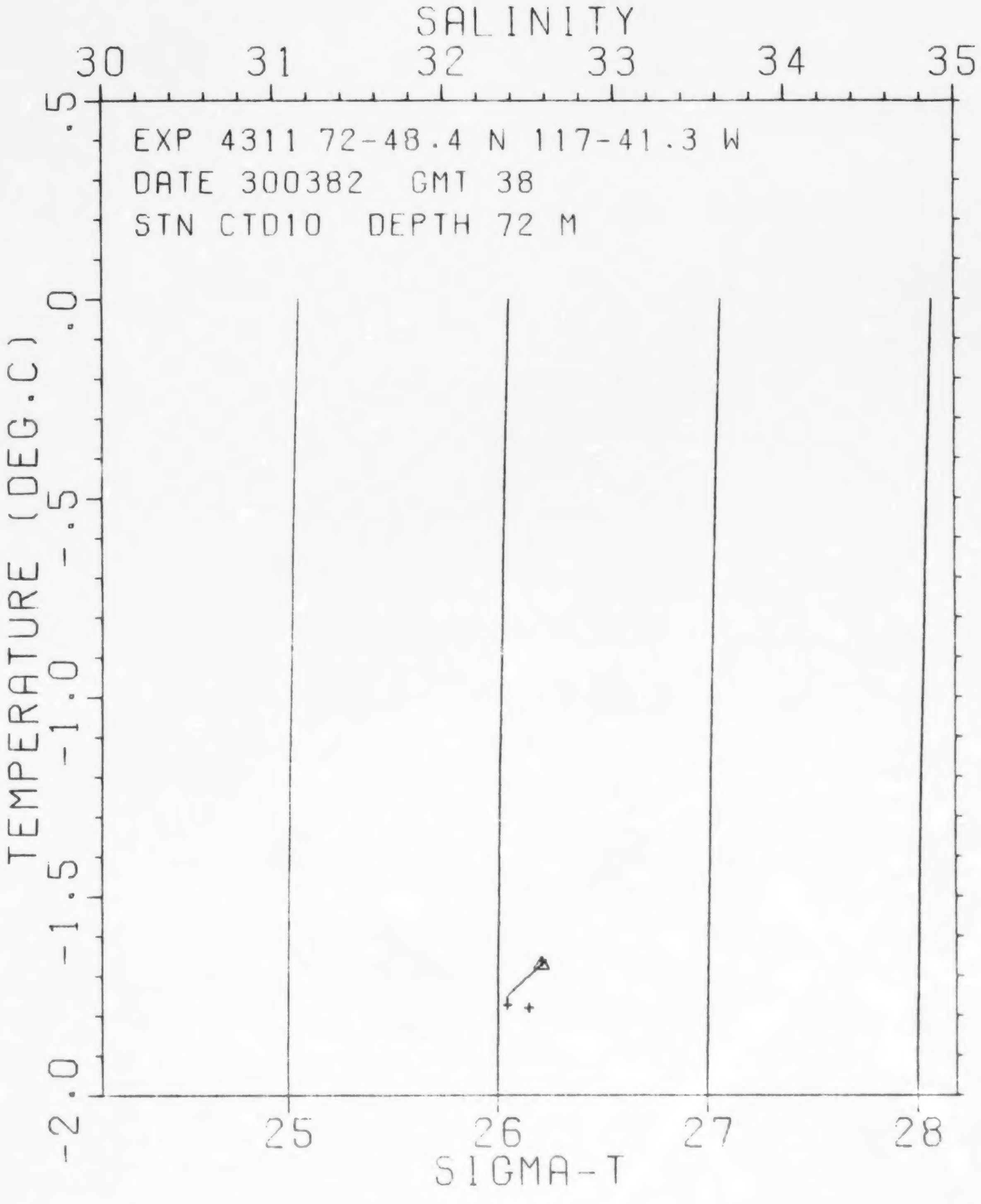

SALINITY
30
31
32
33
34
35
EXP 4310 72-49.7 N 117-46.6 W
DATE 290382 GMT 2358
STN CTD09 DEPTH 100 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

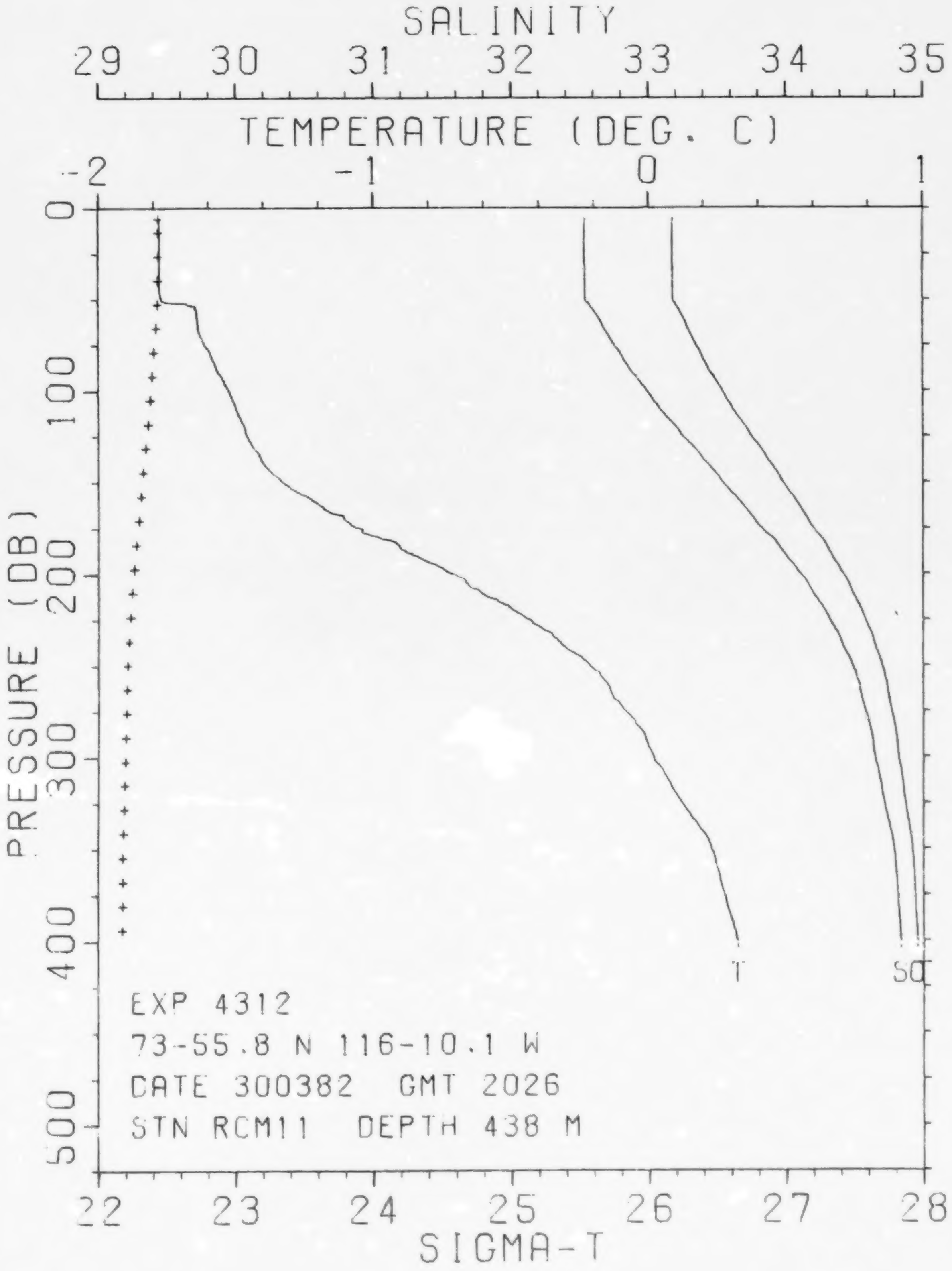

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4311
72-48.4 N 117-41.3 W
DATE 300382 GMT 38
STN CTD10 DEPTH 72 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE U15-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD10 EXPERIMENT NO. 4311 DATE 300382 GMT 38
LAT. 72-48.4 N LONG. 117-41.3 W
WATER DEPTH 72.0 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.2	-1.755	32.371	26.043	.0103	1437.51
6.0	-1.755	32.372	26.043	.0117	1437.53
7.0	-1.753	32.371	26.042	.0137	1437.55
8.0	-1.752	32.372	26.044	.0156	1437.57
9.0	-1.752	32.373	26.044	.0176	1437.59
10.0	-1.749	32.374	26.045	.0195	1437.62
11.0	-1.749	32.376	26.046	.0215	1437.64
12.0	-1.747	32.380	26.049	.0234	1437.67
13.0	-1.747	32.382	26.051	.0254	1437.69
14.0	-1.747	32.383	26.052	.0273	1437.71
15.0	-1.747	32.386	26.055	.0293	1437.73
16.0	-1.745	32.387	26.055	.0312	1437.76
17.0	-1.746	32.387	26.056	.0332	1437.77
18.0	-1.745	32.386	26.054	.0351	1437.79
19.0	-1.745	32.386	26.055	.0371	1437.81
20.0	-1.744	32.388	26.056	.0390	1437.83
21.0	-1.741	32.391	26.059	.0409	1437.86
22.0	-1.740	32.395	26.062	.0429	1437.89
23.0	-1.741	32.398	26.064	.0448	1437.91
24.0	-1.740	32.401	26.067	.0467	1437.93
25.0	-1.737	32.401	26.067	.0487	1437.96
27.5	-1.737	32.405	26.070	.0535	1438.01
30.0	-1.737	32.409	26.073	.0583	1438.05
32.5	-1.735	32.412	26.075	.0631	1438.11
35.0	-1.730	32.424	26.085	.0679	1438.19
37.5	-1.716	32.459	26.113	.0727	1438.35
40.0	-1.700	32.503	26.149	.0773	1438.53
42.5	-1.682	32.546	26.183	.0819	1438.71
45.0	-1.673	32.569	26.201	.0865	1438.83
46.0	-1.674	32.572	26.204	.0883	1438.85
47.0	-1.673	32.573	26.205	.0901	1438.87
48.0	-1.673	32.573	26.205	.0919	1438.89
49.0	-1.673	32.574	26.206	.0937	1438.90
50.0	-1.673	32.575	26.206	.0955	1438.92
51.0	-1.671	32.575	26.207	.0972	1438.95
52.0	-1.671	32.579	26.210	.0990	1438.97
53.0	-1.669	32.581	26.211	.1008	1439.00
54.0	-1.668	32.582	26.212	.1026	1439.02
55.0	-1.668	32.583	26.213	.1044	1439.04
56.0	-1.667	32.585	26.214	.1062	1439.06
57.0	-1.667	32.585	26.215	.1080	1439.08
58.0	-1.666	32.585	26.215	.1098	1439.10
59.0	-1.667	32.587	26.216	.1116	1439.11

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
60.0	-1.666	32.587	26.216	.1134	1439.13
61.0	-1.666	32.587	26.216	.1151	1439.15
62.0	-1.666	32.588	26.217	.1169	1439.17
63.0	-1.663	32.591	26.220	.1187	1439.20
64.0	-1.663	32.593	26.221	.1205	1439.22
65.0	-1.663	32.595	26.223	.1223	1439.24
66.0	-1.660	32.599	26.226	.1241	1439.28
67.0	-1.661	32.600	26.227	.1258	1439.29
68.0	-1.660	32.601	26.228	.1276	1439.31
69.0	-1.659	32.604	26.229	.1294	1439.34
69.4	-1.660	32.603	26.229	.1301	1439.34

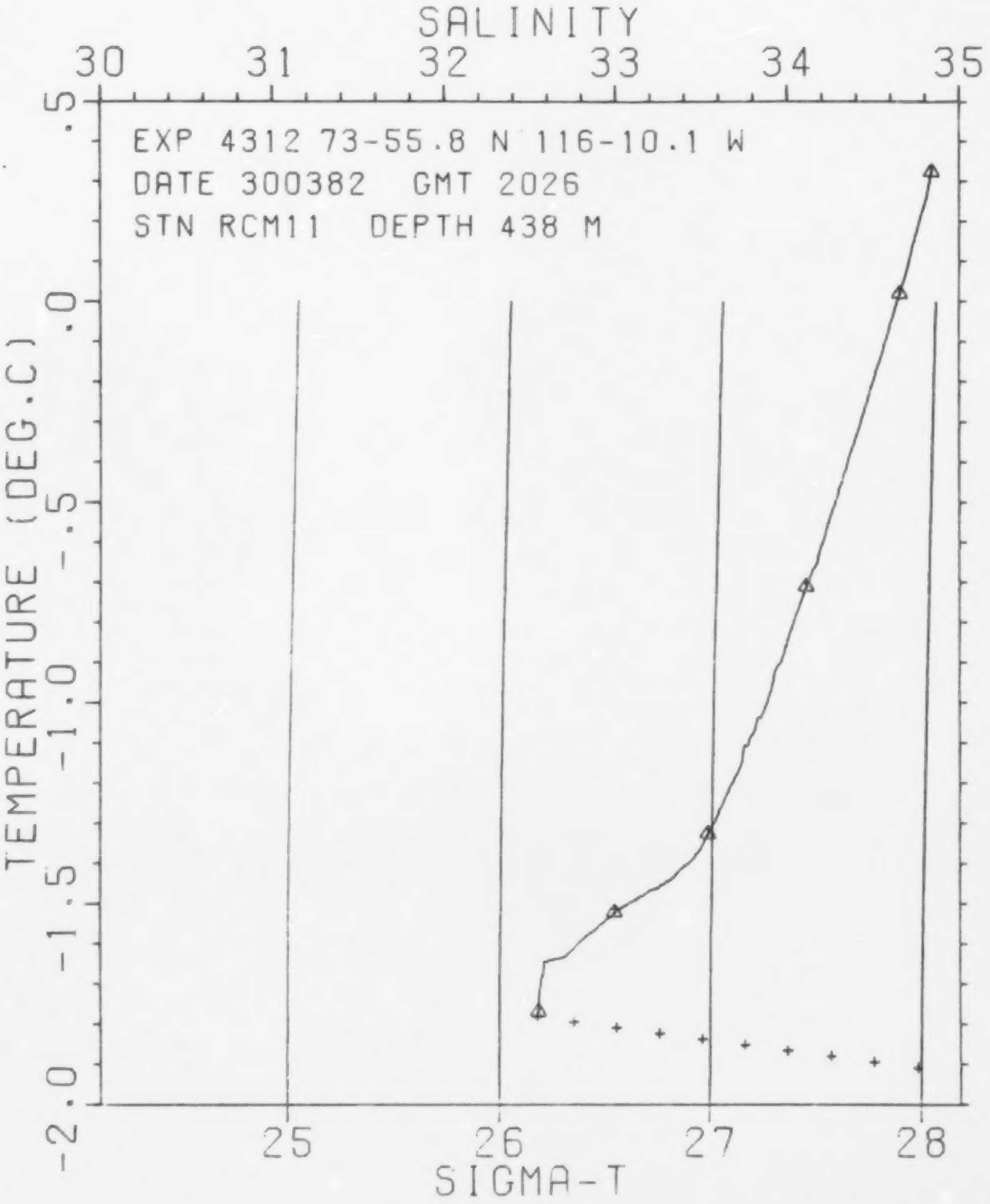

SALINITY
30
31
32
33
34
35
EXP 4311 72-48.4 N 117-41.3 W
DATE 300382 GMT 38
STN CTD10 DEPTH 72 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

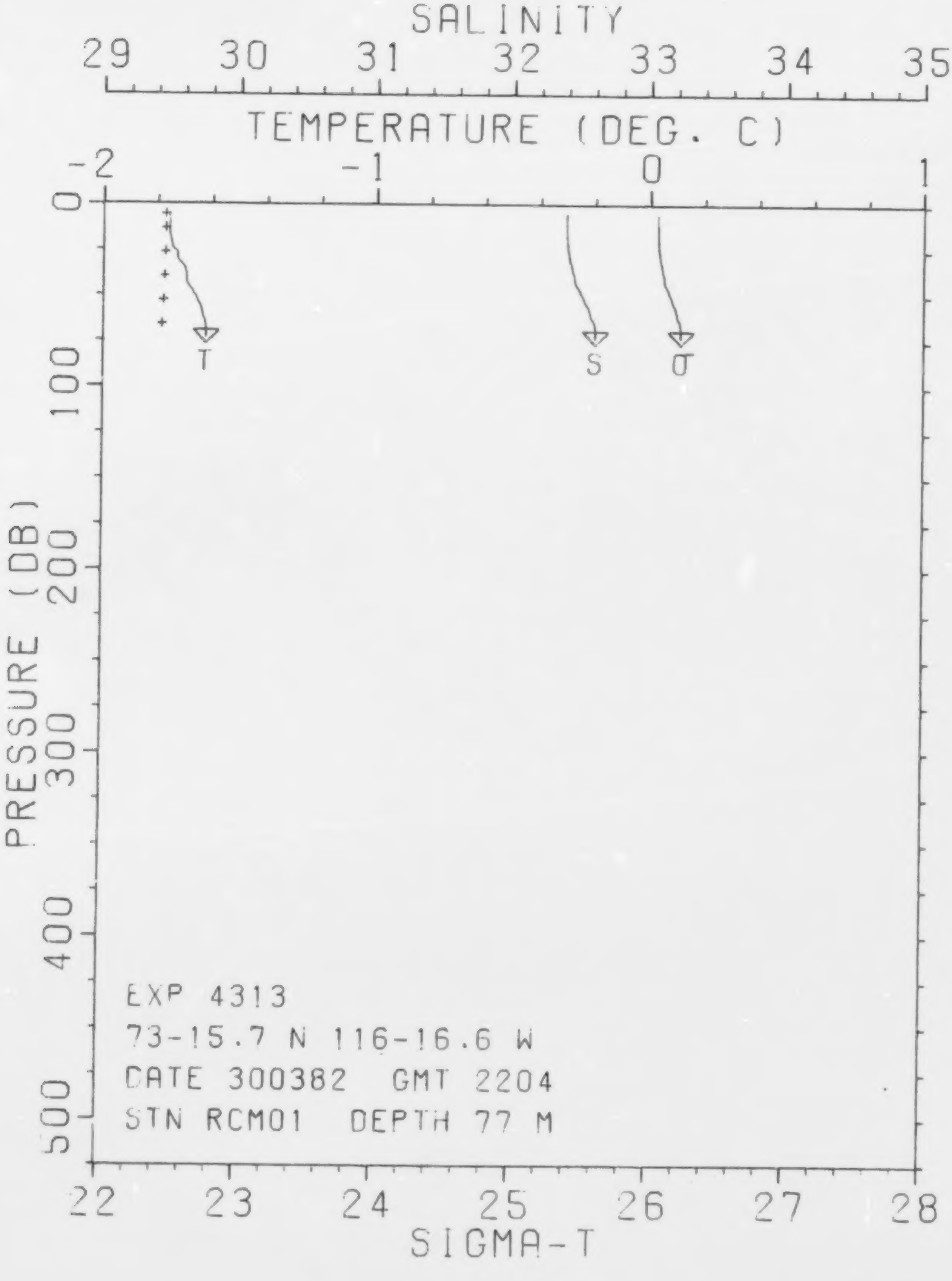

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4312
73-55.8 N 116-10.1 W
DATE 300382 GMT 2026
STN RCM11 DEPTH 438 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION RCM11 EXPERIMENT NO. 4312 DATE 300382 GMT 2026
LAT. 73-55.8 N LONG. 116-10.1 W
WATER DEPTH 438.0 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.6	-1.778	32.537	26.178	.0103	1437.64
6.0	-1.778	32.538	26.178	.0110	1437.65
7.0	-1.778	32.538	26.179	.0128	1437.67
8.0	-1.778	32.537	26.176	.0146	1437.68
9.0	-1.777	32.536	26.177	.0165	1437.70
10.0	-1.777	32.536	26.177	.0183	1437.72
11.0	-1.777	32.536	26.177	.0201	1437.73
12.0	-1.776	32.536	26.177	.0219	1437.75
13.0	-1.777	32.536	26.177	.0238	1437.76
14.0	-1.777	32.535	26.177	.0256	1437.78
15.0	-1.775	32.534	26.176	.0274	1437.80
16.0	-1.776	32.535	26.176	.0292	1437.82
17.0	-1.776	32.536	26.177	.0311	1437.84
18.0	-1.777	32.536	26.177	.0329	1437.85
19.0	-1.776	32.535	26.176	.0347	1437.87
20.0	-1.776	32.535	26.177	.0366	1437.88
21.0	-1.777	32.536	26.177	.0384	1437.90
22.0	-1.776	32.536	26.177	.0402	1437.92
23.0	-1.777	32.536	26.177	.0420	1437.93
24.0	-1.777	32.536	26.177	.0439	1437.95
25.0	-1.777	32.537	26.178	.0457	1437.96
27.5	-1.775	32.536	26.177	.0503	1438.01
30.0	-1.775	32.536	26.177	.0548	1438.06
32.5	-1.777	32.541	26.181	.0594	1438.09
35.0	-1.776	32.540	26.180	.0639	1438.14
37.5	-1.778	32.543	26.183	.0685	1438.17
40.0	-1.776	32.541	26.181	.0730	1438.22
42.5	-1.777	32.542	26.182	.0776	1438.26
45.0	-1.776	32.543	26.183	.0821	1438.30
47.5	-1.772	32.543	26.182	.0867	1438.36
50.0	-1.769	32.545	26.184	.0912	1438.42
55.0	-1.646	32.596	26.223	.1002	1439.16
60.0	-1.637	32.639	26.257	.1091	1439.34
65.0	-1.636	32.673	26.285	.1177	1439.48
70.0	-1.627	32.714	26.319	.1263	1439.66
75.0	-1.611	32.754	26.351	.1346	1439.88
80.0	-1.589	32.803	26.390	.1428	1440.13
85.0	-1.575	32.843	26.422	.1508	1440.33
90.0	-1.562	32.885	26.456	.1587	1440.54
95.0	-1.539	32.943	26.502	.1664	1440.81
100.0	-1.522	32.991	26.541	.1738	1441.04
105.0	-1.509	33.035	26.576	.1811	1441.24
110.0	-1.497	33.086	26.617	.1882	1441.45

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.481	33.144	26.664	.1951	1441.70
120.0	-1.466	33.209	26.717	.2018	1441.94
125.0	-1.459	33.253	26.752	.2083	1442.11
130.0	-1.440	33.325	26.810	.2145	1442.39
135.0	-1.413	33.383	26.856	.2205	1442.68
140.0	-1.394	33.436	26.898	.2263	1442.92
145.0	-1.365	33.495	26.945	.2319	1443.22
150.0	-1.325	33.541	26.982	.2372	1443.56
155.0	-1.279	33.599	27.027	.2424	1443.94
160.0	-1.220	33.660	27.075	.2473	1444.39
165.0	-1.176	33.718	27.121	.2521	1444.76
170.0	-1.105	33.775	27.164	.2566	1445.25
175.0	-1.047	33.824	27.202	.2610	1445.67
180.0	-.982	33.900	27.261	.2651	1446.17
185.0	-.903	33.958	27.305	.2689	1446.69
190.0	-.850	34.002	27.339	.2726	1447.09
195.0	-.772	34.059	27.382	.2761	1447.61
200.0	-.710	34.111	27.422	.2794	1448.05
210.0	-.611	34.199	27.488	.2855	1448.80
220.0	-.491	34.288	27.555	.2909	1449.64
230.0	-.388	34.363	27.611	.2958	1450.39
240.0	-.304	34.426	27.658	.3002	1451.02
250.0	-.213	34.488	27.704	.3042	1451.69
260.0	-.151	34.536	27.740	.3078	1452.21
270.0	-.108	34.564	27.760	.3112	1452.61
280.0	-.050	34.604	27.789	.3143	1453.10
290.0	-.010	34.634	27.811	.3172	1453.48
300.0	.019	34.654	27.826	.3199	1453.81
310.0	.060	34.686	27.849	.3224	1454.20
320.0	.099	34.708	27.865	.3248	1454.57
330.0	.146	34.734	27.884	.3270	1454.99
340.0	.195	34.767	27.907	.3289	1455.42
350.0	.231	34.791	27.925	.3307	1455.78
360.0	.249	34.804	27.935	.3324	1456.05
370.0	.267	34.815	27.942	.3340	1456.30
380.0	.286	34.823	27.947	.3356	1456.57
390.0	.309	34.832	27.953	.3371	1456.85
400.0	.325	34.839	27.958	.3385	1457.09
404.5	.326	34.839	27.958	.3392	1457.17

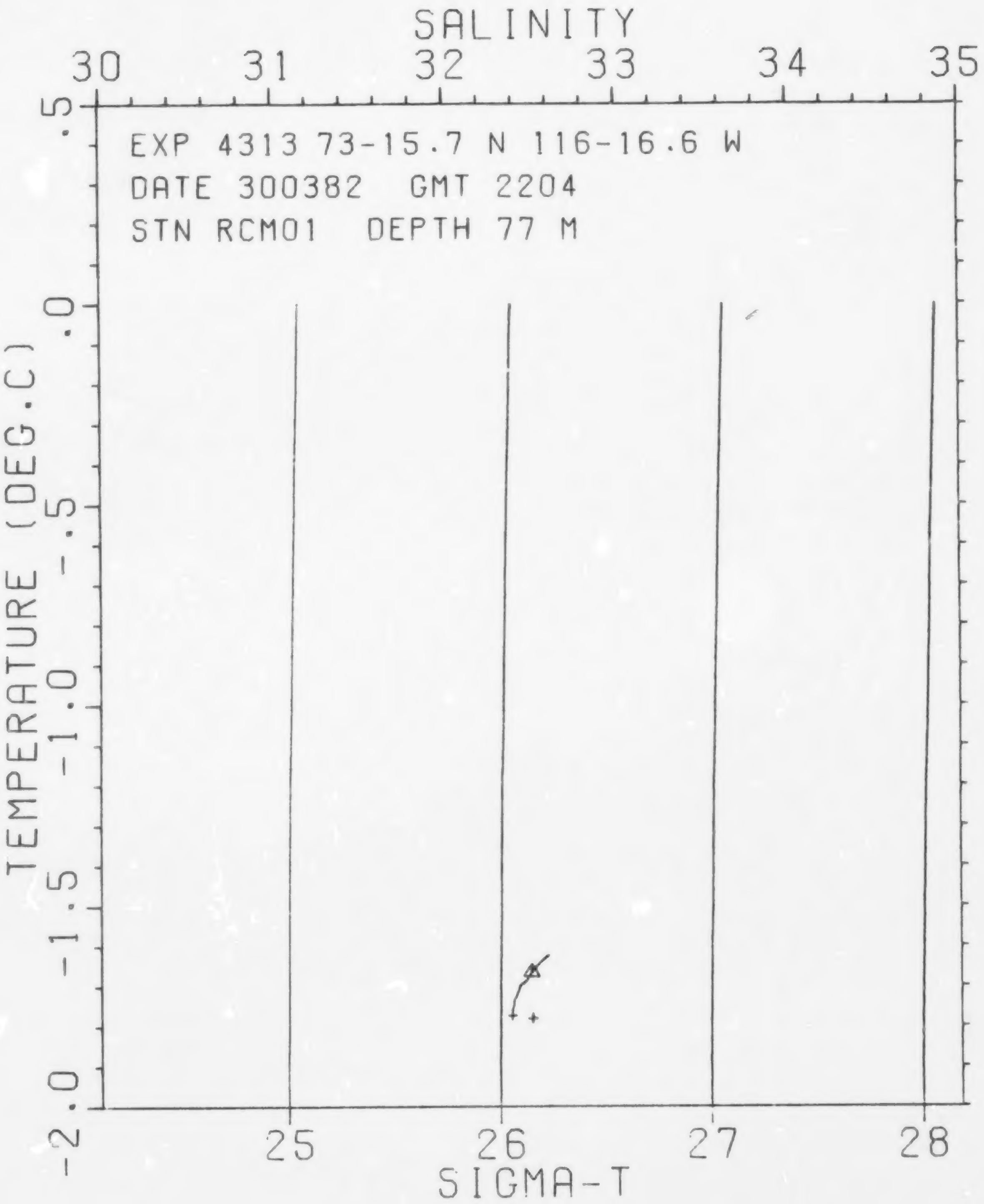

SALINITY
30
31
32
33
34
35
EXP 4312 73-55.8 N 116-10.1 W
DATE 300382 GMT 2026
STN RCM11 DEPTH 438 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

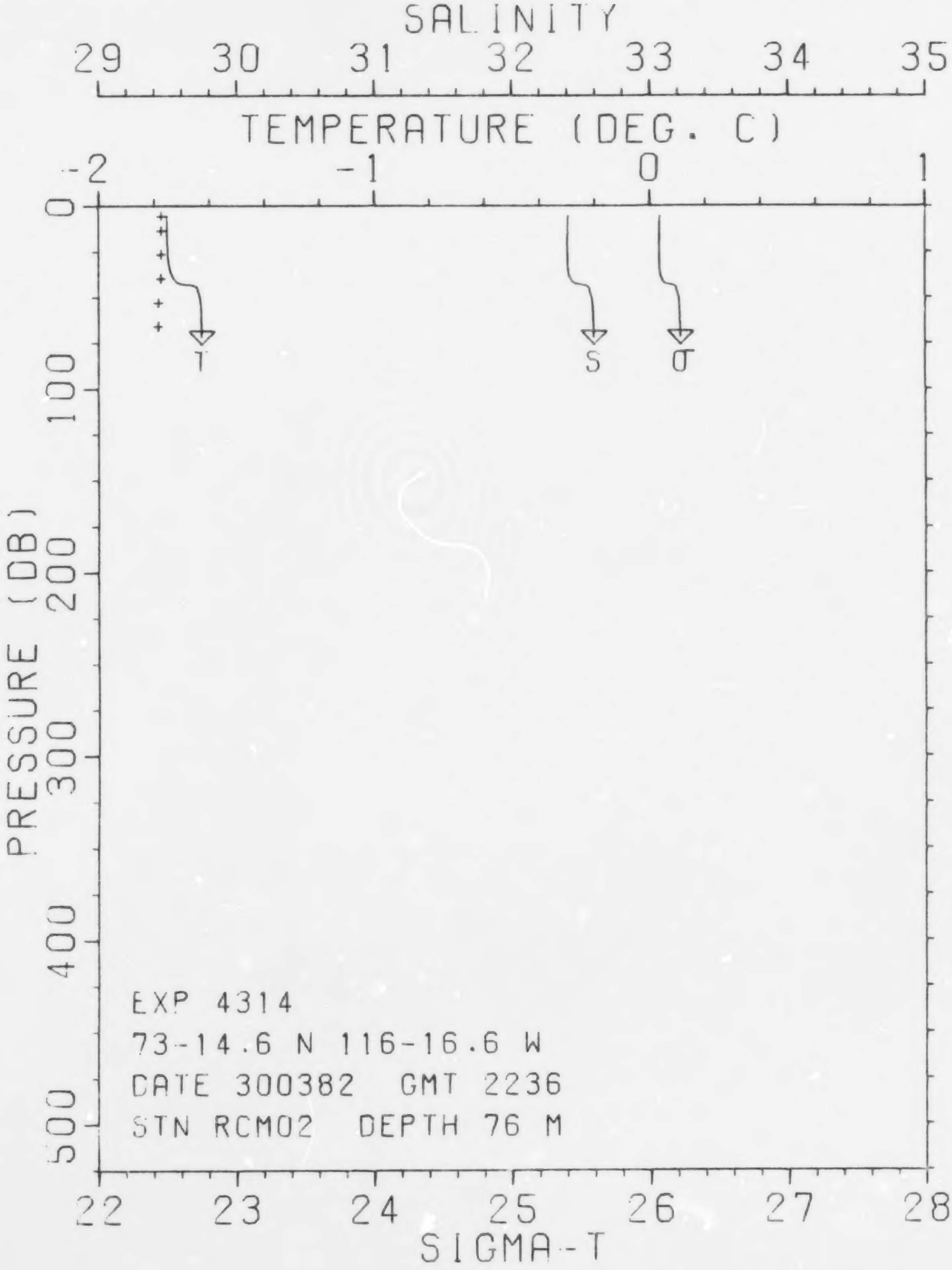

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4313
73-15.7 N 116-16.6 W
DATE 300382 GMT 2204
STN RCM01 DEPTH 77 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION RCM01 EXPERIMENT NO. 4313 DATE 300382 GMT 2204
LAT. 73-15.7 N LONG. 116-16.6 W
WATER DEPTH 76.7 M ICE THICKNESS 1.9 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.3	-1.760	32.385	26.054	.0104	1437.51
6.0	-1.760	32.385	26.054	.0117	1437.52
7.0	-1.760	32.385	26.054	.0136	1437.53
8.0	-1.759	32.385	26.054	.0156	1437.56
9.0	-1.758	32.386	26.055	.0175	1437.58
10.0	-1.757	32.384	26.053	.0195	1437.60
11.0	-1.759	32.387	26.055	.0214	1437.61
12.0	-1.760	32.387	26.056	.0233	1437.62
13.0	-1.759	32.387	26.056	.0253	1437.64
14.0	-1.759	32.388	26.057	.0272	1437.66
15.0	-1.760	32.389	26.057	.0292	1437.67
16.0	-1.758	32.387	26.056	.0311	1437.70
17.0	-1.759	32.389	26.057	.0331	1437.71
18.0	-1.757	32.389	26.057	.0350	1437.73
19.0	-1.755	32.390	26.058	.0369	1437.76
20.0	-1.754	32.392	26.059	.0389	1437.79
21.0	-1.752	32.392	26.059	.0408	1437.81
22.0	-1.752	32.393	26.060	.0428	1437.83
23.0	-1.750	32.394	26.061	.0447	1437.86
24.0	-1.748	32.394	26.061	.0466	1437.88
25.0	-1.741	32.393	26.060	.0486	1437.93
27.5	-1.728	32.407	26.071	.0534	1438.05
30.0	-1.727	32.408	26.072	.0582	1438.10
32.5	-1.716	32.417	26.079	.0630	1438.21
35.0	-1.702	32.431	26.090	.0678	1438.34
37.5	-1.699	32.436	26.094	.0726	1438.40
40.0	-1.695	32.448	26.104	.0773	1438.47
42.5	-1.695	32.448	26.104	.0821	1438.52
45.0	-1.688	32.464	26.117	.0868	1438.61
47.5	-1.673	32.488	26.136	.0915	1438.76
50.0	-1.667	32.500	26.145	.0961	1438.84
51.0	-1.660	32.513	26.156	.0980	1438.91
52.0	-1.659	32.517	26.159	.0998	1438.94
53.0	-1.656	32.520	26.162	.1016	1438.98
54.0	-1.652	32.527	26.167	.1035	1439.02
55.0	-1.648	32.535	26.173	.1053	1439.06
56.0	-1.643	32.546	26.182	.1071	1439.12
57.0	-1.641	32.551	26.186	.1090	1439.16
58.0	-1.639	32.553	26.188	.1108	1439.18
59.0	-1.639	32.558	26.192	.1126	1439.20
60.0	-1.637	32.562	26.195	.1144	1439.24
61.0	-1.634	32.564	26.197	.1162	1439.27
62.0	-1.635	32.566	26.199	.1180	1439.28

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
63.0	-1.632	32.572	26.203	.1198	1439.32
64.0	-1.629	32.566	26.214	.1216	1439.36
65.0	-1.625	32.592	26.219	.1234	1439.42
66.0	-1.624	32.594	26.221	.1252	1439.44
67.0	-1.626	32.598	26.224	.1269	1439.45
68.0	-1.624	32.598	26.224	.1287	1439.48
69.0	-1.624	32.600	26.226	.1305	1439.50
70.0	-1.623	32.600	26.226	.1323	1439.52
71.0	-1.624	32.601	26.226	.1340	1439.53
72.0	-1.624	32.600	26.226	.1358	1439.55
73.0	-1.624	32.599	26.225	.1376	1439.56
73.5	-1.624	32.599	26.225	.1384	1439.57

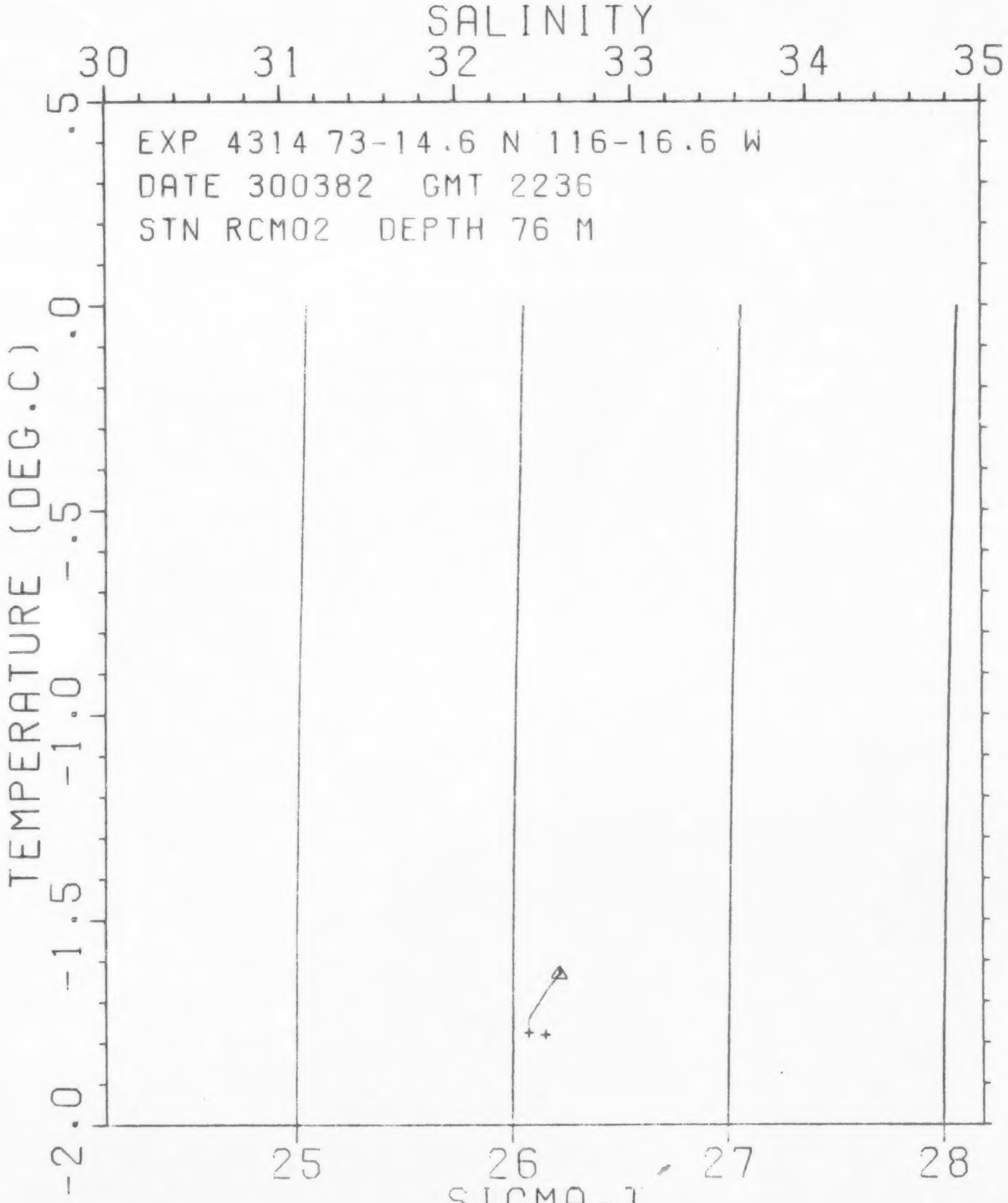

SALINITY
30
31
32
33
34
35
EXP 4313 73-15.7 N 116-16.6 W
DATE 300382 GMT 2204
STN RCM01 DEPTH 77 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

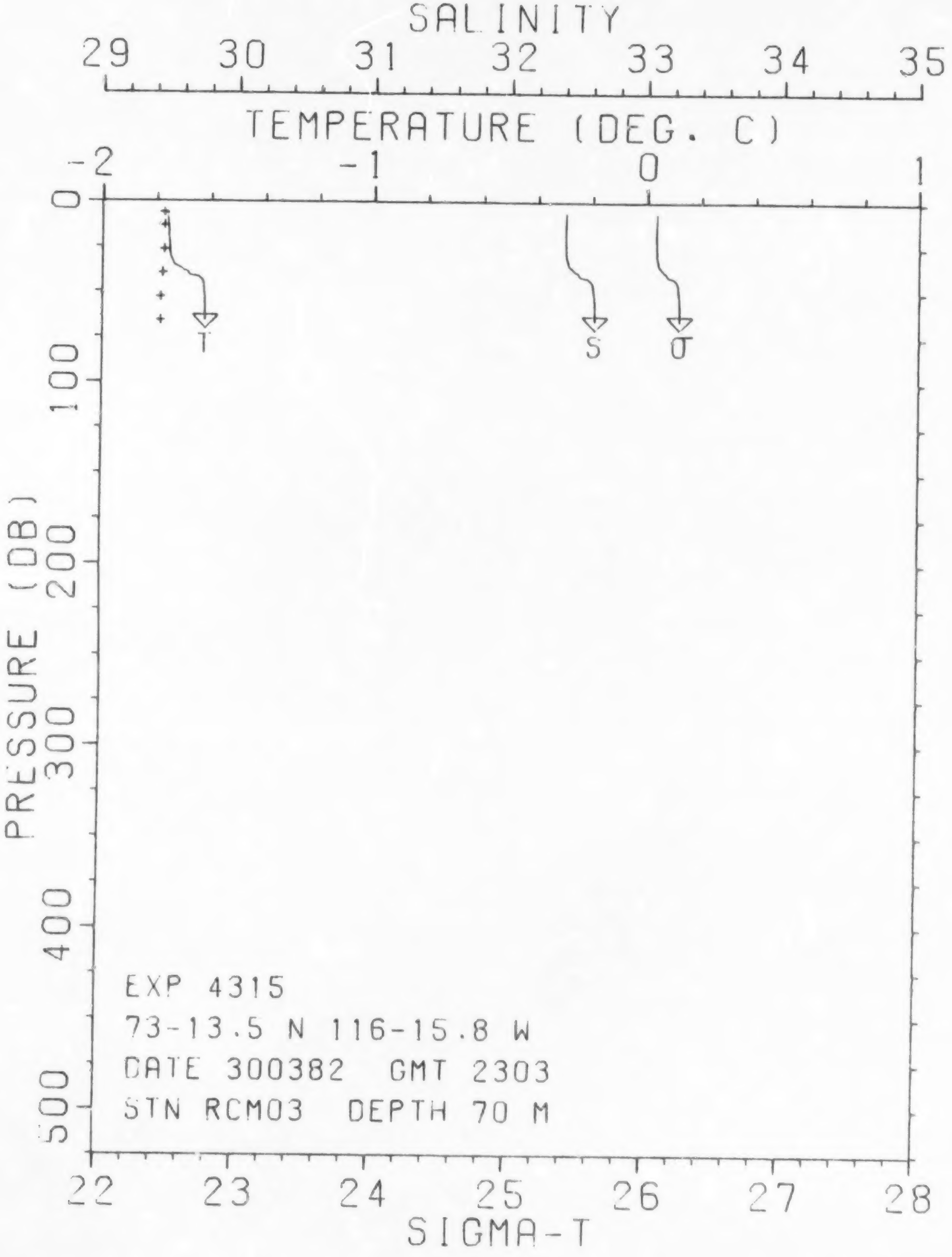

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
0
100
200
300
400
500
PRESSURE (DB)
T
S
σ
EXP 4314
73-14.6 N 116-16.6 W
DATE 300382 GMT 2236
STN RCM02 DEPTH 76 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-62-021 WESTERN NORTH-WEST PASSAGE
STATION PCM02 EXPERIMENT NO. 4314 DATE 300382 GMT 2236
LAT. 73-14.6 N LONG. 116-16.6 W
WATER DEPTH 75.5 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.3	-1.754	32.409	26.073	.0102	1437.57
6.0	-1.753	32.408	26.072	.0115	1437.58
7.0	-1.753	32.407	26.072	.0135	1437.60
8.0	-1.754	32.408	26.072	.0154	1437.61
9.0	-1.752	32.407	26.072	.0173	1437.64
10.0	-1.752	32.407	26.072	.0193	1437.65
11.0	-1.753	32.407	26.072	.0212	1437.67
12.0	-1.753	32.408	26.072	.0231	1437.68
13.0	-1.752	32.406	26.071	.0250	1437.70
14.0	-1.752	32.407	26.072	.0270	1437.72
15.0	-1.753	32.408	26.073	.0289	1437.73
16.0	-1.752	32.406	26.071	.0308	1437.75
17.0	-1.752	32.406	26.071	.0327	1437.77
18.0	-1.752	32.406	26.071	.0347	1437.79
19.0	-1.752	32.407	26.072	.0366	1437.80
20.0	-1.752	32.406	26.071	.0385	1437.82
21.0	-1.751	32.405	26.070	.0405	1437.84
22.0	-1.751	32.407	26.071	.0424	1437.86
23.0	-1.751	32.407	26.072	.0443	1437.87
24.0	-1.750	32.406	26.071	.0462	1437.89
25.0	-1.749	32.407	26.071	.0482	1437.91
27.5	-1.750	32.407	26.072	.0530	1437.95
30.0	-1.747	32.410	26.074	.0578	1438.01
32.5	-1.747	32.409	26.073	.0626	1438.05
35.0	-1.741	32.412	26.075	.0674	1438.12
37.5	-1.737	32.418	26.080	.0722	1438.19
40.0	-1.728	32.431	26.090	.0770	1438.29
42.5	-1.705	32.462	26.115	.0817	1438.48
45.0	-1.643	32.567	26.200	.0863	1438.97
47.5	-1.638	32.574	26.205	.0908	1439.04
50.0	-1.633	32.584	26.213	.0953	1439.12
51.0	-1.630	32.586	26.215	.0971	1439.16
52.0	-1.630	32.589	26.217	.0989	1439.18
53.0	-1.630	32.588	26.216	.1007	1439.19
54.0	-1.630	32.591	26.218	.1025	1439.21
55.0	-1.629	32.590	26.217	.1042	1439.23
56.0	-1.629	32.593	26.220	.1060	1439.25
57.0	-1.627	32.592	26.219	.1078	1439.28
58.0	-1.628	32.593	26.220	.1096	1439.29
59.0	-1.628	32.594	26.221	.1114	1439.31
60.0	-1.628	32.594	26.221	.1132	1439.32
61.0	-1.628	32.594	26.221	.1149	1439.34
62.0	-1.628	32.594	26.221	.1167	1439.36

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
63.0	-1.627	32.594	26.221	.1185	1439.38
64.0	-1.629	32.595	26.222	.1203	1439.39
65.0	-1.628	32.596	26.222	.1221	1439.41
66.0	-1.627	32.596	26.223	.1238	1439.43
67.0	-1.627	32.597	26.223	.1256	1439.45
68.0	-1.627	32.597	26.223	.1274	1439.46
69.0	-1.627	32.597	26.223	.1292	1439.48
70.0	-1.627	32.596	26.223	.1310	1439.50
71.0	-1.627	32.598	26.224	.1327	1439.51
72.0	-1.627	32.598	26.224	.1345	1439.53
72.1	-1.628	32.598	26.224	.1348	1439.53


SALINITY
30
31
32
33
34
35
EXP 4314 73-14.6 N 116-16.6 W
DATE 300382 GMT 2236
STN RCM02 DEPTH 76 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

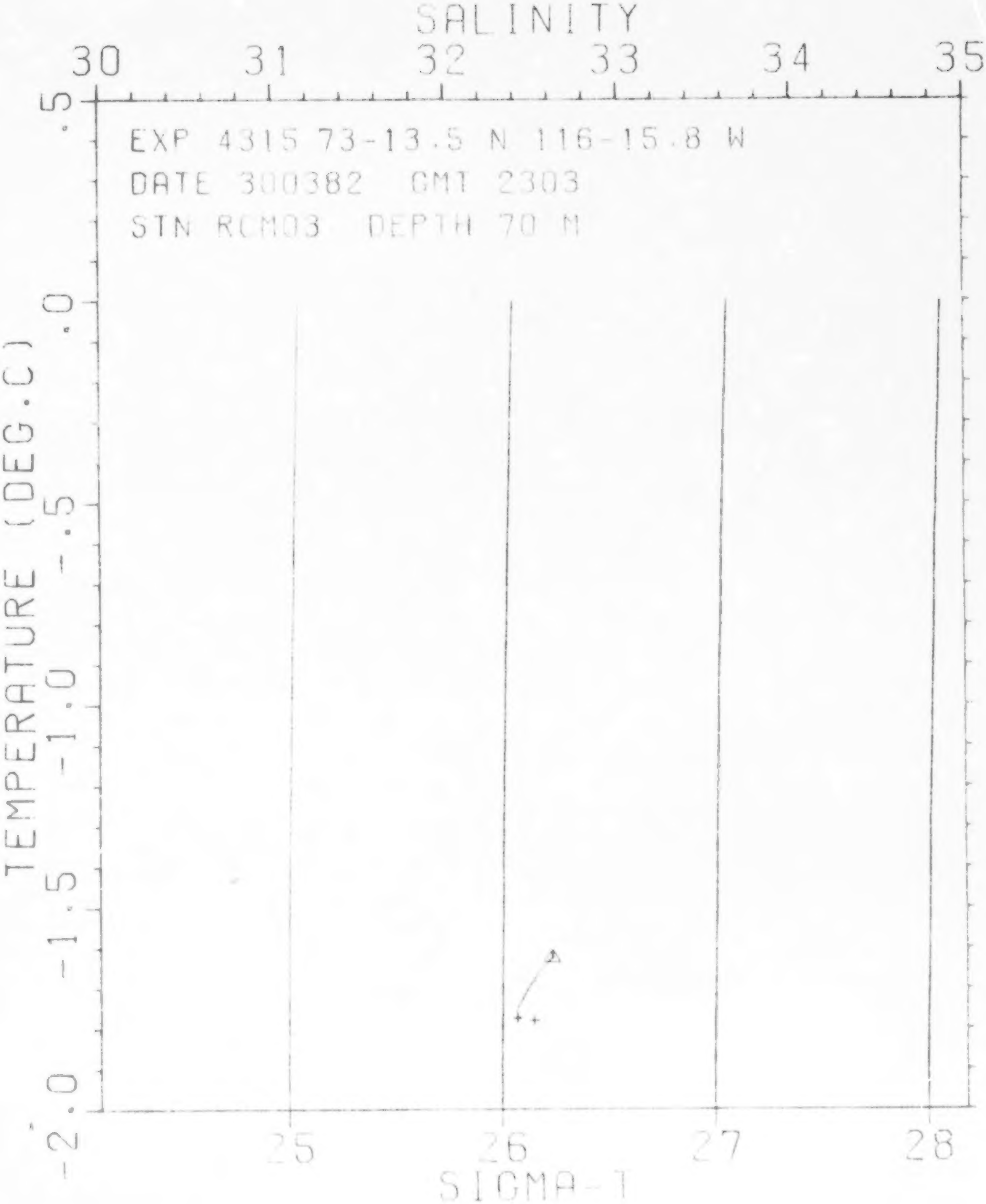


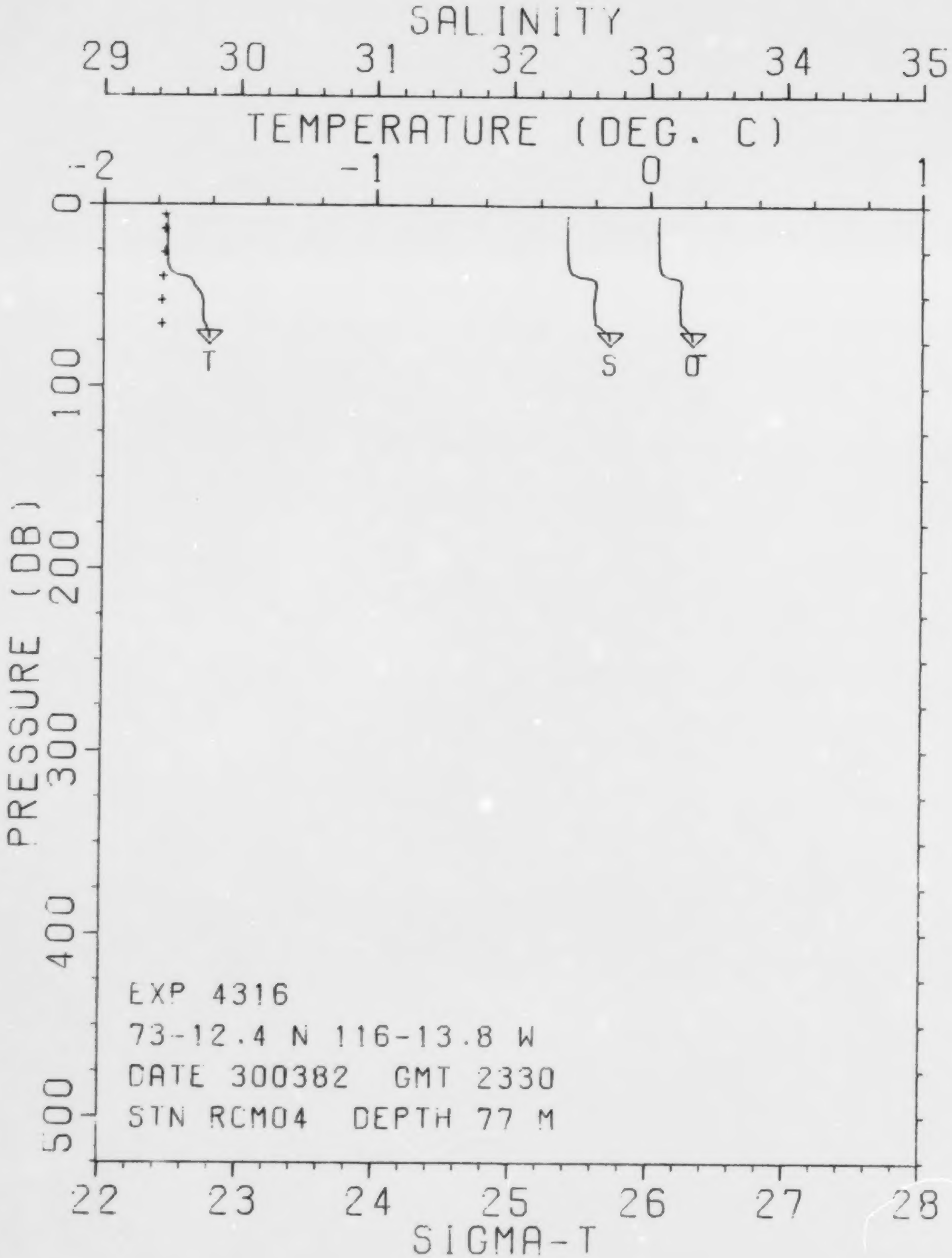
EXP 4315
73-13.5 N 116-15.8 W
DATE 300382 GMT 2303
STN RCM03 DEPTH 70 M

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION RCM03 EXPERIMENT NO. 4315 DATE 300382 GMT 2303
LAT. 73-13.5 N LONG. 116-15.8 W
WATER DEPTH 70.2 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.9	-1.762	32.402	26.068	.0114	1437.53
6.0	-1.762	32.402	26.068	.0116	1437.44
7.0	-1.761	32.402	26.068	.0135	1437.55
8.0	-1.762	32.402	26.068	.0154	1437.57
9.0	-1.761	32.402	26.068	.0174	1437.59
10.0	-1.760	32.401	26.067	.0193	1437.61
11.0	-1.760	32.401	26.067	.0212	1437.62
12.0	-1.760	32.401	26.067	.0232	1437.64
13.0	-1.758	32.399	26.065	.0251	1437.66
14.0	-1.757	32.398	26.065	.0270	1437.68
15.0	-1.757	32.398	26.065	.0290	1437.70
16.0	-1.758	32.400	26.066	.0309	1437.71
17.0	-1.758	32.399	26.065	.0328	1437.73
18.0	-1.759	32.400	26.066	.0348	1437.74
19.0	-1.756	32.397	26.063	.0367	1437.77
20.0	-1.759	32.400	26.066	.0386	1437.78
21.0	-1.756	32.399	26.065	.0406	1437.80
22.0	-1.757	32.401	26.067	.0425	1437.82
23.0	-1.755	32.402	26.067	.0444	1437.85
24.0	-1.754	32.401	26.067	.0464	1437.87
25.0	-1.753	32.401	26.067	.0483	1437.89
27.5	-1.754	32.403	26.068	.0531	1437.93
30.0	-1.751	32.404	26.069	.0579	1437.98
32.5	-1.743	32.415	26.078	.0628	1438.08
35.0	-1.737	32.423	26.084	.0675	1438.16
37.5	-1.709	32.460	26.114	.0723	1438.38
40.0	-1.681	32.498	26.144	.0770	1438.61
42.5	-1.641	32.570	26.202	.0816	1438.94
45.0	-1.628	32.598	26.224	.0860	1439.09
46.0	-1.628	32.602	26.227	.0878	1439.11
47.0	-1.627	32.602	26.227	.0896	1439.13
48.0	-1.627	32.603	26.228	.0914	1439.15
49.0	-1.627	32.605	26.230	.0931	1439.16
50.0	-1.625	32.606	26.230	.0949	1439.19
51.0	-1.627	32.608	26.232	.0967	1439.20
52.0	-1.624	32.610	26.234	.0985	1439.24
53.0	-1.625	32.612	26.236	.1002	1439.25
54.0	-1.624	32.613	26.236	.1020	1439.27
55.0	-1.624	32.612	26.236	.1038	1439.29
56.0	-1.624	32.613	26.237	.1055	1439.31
57.0	-1.624	32.613	26.236	.1073	1439.32
58.0	-1.623	32.612	26.235	.1091	1439.34
59.0	-1.622	32.615	26.238	.1108	1439.36

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
60.0	-1.623	32.614	26.237	.1126	1439.38
61.0	-1.623	32.614	26.237	.1144	1439.39
62.0	-1.624	32.615	26.238	.1161	1439.40
63.0	-1.624	32.614	26.237	.1179	1439.42
64.0	-1.624	32.615	26.238	.1197	1439.44
65.0	-1.623	32.614	26.237	.1214	1439.46
65.9	-1.624	32.615	26.238	.1230	1439.47

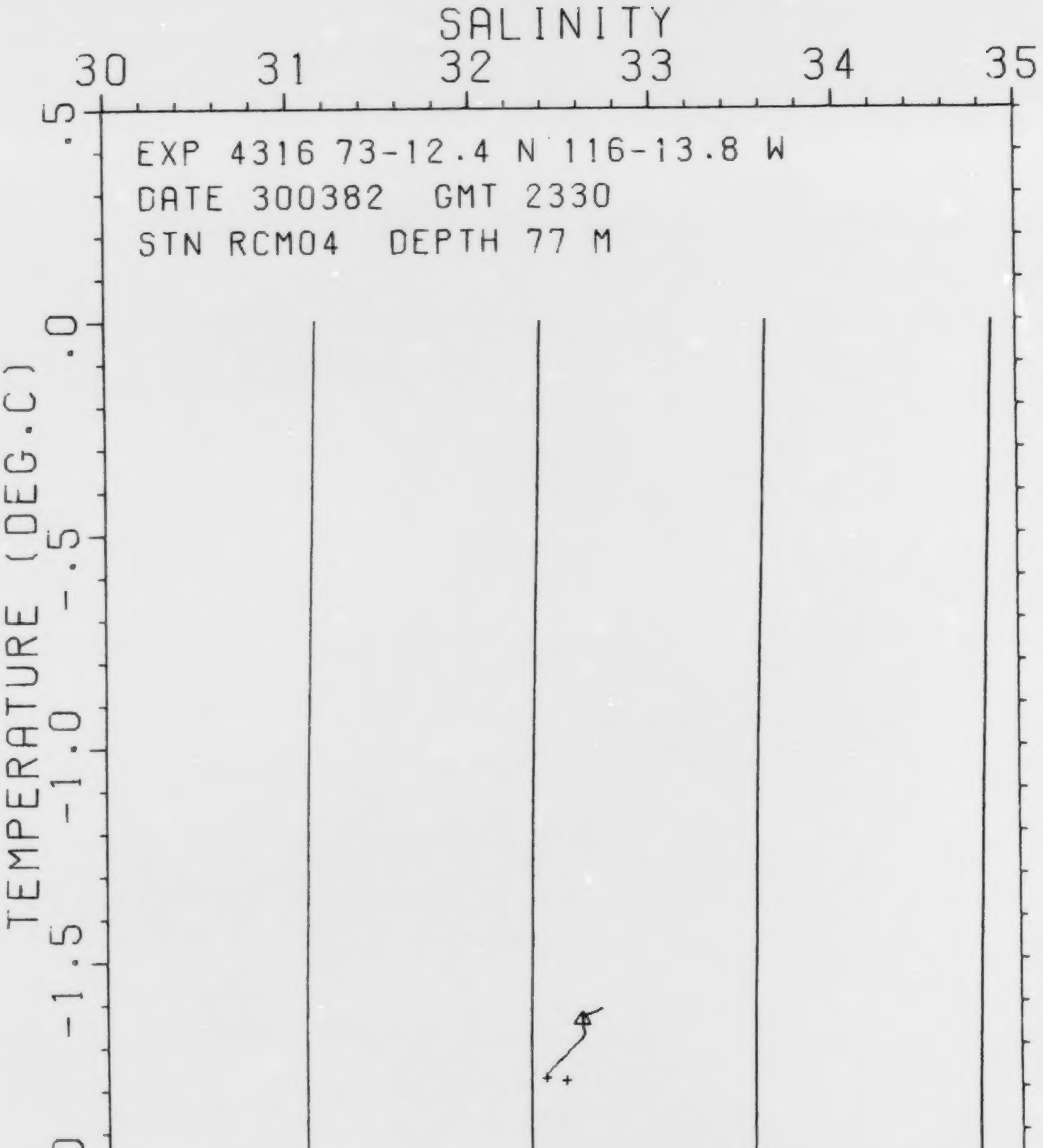

SALINITY
30
31
32
33
34
35
EXP 4315 73-13.5 N 116-15.8 W
DATE 300382 GMT 2303
STN RCM03 DEPTH 70 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-1

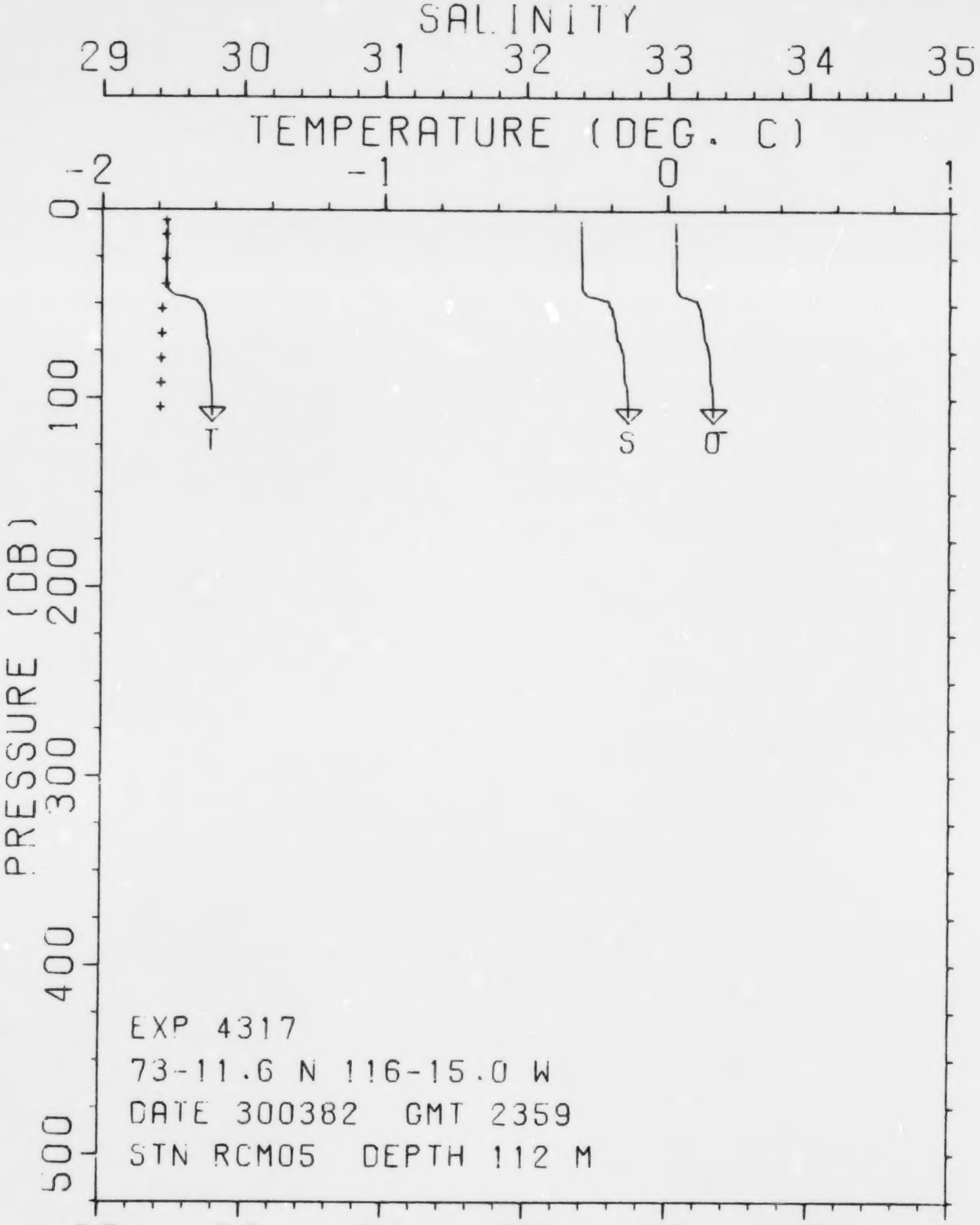

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4316
73-12.4 N 116-13.8 W
DATE 300382 GMT 2330
STN RCM04 DEPTH 77 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION RCM04 EXPERIMENT NO. 4316 DATE 300382 GMT 2330
LAT. 73-12.4 N LONG. 116-13.8 W
WATER DEPTH 76.9 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.768	32.398	26.064	.0105	1437.49
6.0	-1.767	32.397	26.064	.0116	1437.50
7.0	-1.767	32.397	26.064	.0136	1437.52
8.0	-1.766	32.396	26.063	.0155	1437.54
9.0	-1.766	32.396	26.063	.0174	1437.55
10.0	-1.765	32.395	26.062	.0194	1437.57
11.0	-1.765	32.395	26.062	.0213	1437.59
12.0	-1.765	32.394	26.061	.0232	1437.61
13.0	-1.765	32.395	26.063	.0252	1437.62
14.0	-1.766	32.396	26.063	.0271	1437.64
15.0	-1.766	32.396	26.063	.0290	1437.66
16.0	-1.766	32.397	26.064	.0310	1437.67
17.0	-1.766	32.397	26.064	.0329	1437.69
18.0	-1.767	32.398	26.065	.0348	1437.70
19.0	-1.767	32.398	26.065	.0368	1437.72
20.0	-1.766	32.397	26.064	.0387	1437.74
21.0	-1.766	32.398	26.065	.0406	1437.76
22.0	-1.766	32.399	26.065	.0426	1437.77
23.0	-1.767	32.400	26.066	.0445	1437.79
24.0	-1.767	32.400	26.067	.0464	1437.80
25.0	-1.768	32.402	26.068	.0484	1437.82
27.5	-1.765	32.403	26.069	.0532	1437.87
30.0	-1.764	32.404	26.069	.0580	1437.92
32.5	-1.763	32.407	26.072	.0628	1437.97
35.0	-1.759	32.417	26.080	.0676	1438.05
37.5	-1.748	32.439	26.097	.0724	1438.17
40.0	-1.691	32.561	26.212	.0771	1438.68
42.5	-1.673	32.611	26.236	.0815	1438.85
45.0	-1.665	32.611	26.236	.0859	1438.93
47.5	-1.650	32.601	26.227	.0904	1439.03
50.0	-1.640	32.599	26.225	.0948	1439.11
51.0	-1.636	32.597	26.223	.0966	1439.14
52.0	-1.635	32.595	26.222	.0984	1439.16
53.0	-1.634	32.594	26.221	.1001	1439.18
54.0	-1.633	32.594	26.221	.1019	1439.20
55.0	-1.633	32.595	26.222	.1037	1439.22
56.0	-1.635	32.596	26.223	.1055	1439.23
57.0	-1.634	32.594	26.221	.1073	1439.25
58.0	-1.635	32.595	26.222	.1091	1439.26
59.0	-1.636	32.596	26.223	.1108	1439.28
60.0	-1.635	32.596	26.223	.1126	1439.29
61.0	-1.635	32.597	26.224	.1144	1439.31
62.0	-1.635	32.598	26.224	.1162	1439.33

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
63.0	-1.633	32.600	26.226	.1180	1439.36
64.0	-1.634	32.602	26.227	.1197	1439.37
65.0	-1.634	32.601	26.227	.1215	1439.39
66.0	-1.625	32.625	26.246	.1233	1439.48
67.0	-1.623	32.649	26.265	.1250	1439.54
68.0	-1.621	32.657	26.272	.1268	1439.58
69.0	-1.619	32.672	26.284	.1285	1439.63
70.0	-1.614	32.696	26.303	.1302	1439.70
71.0	-1.613	32.705	26.311	.1319	1439.73
72.0	-1.613	32.707	26.313	.1336	1439.75
73.0	-1.613	32.709	26.314	.1353	1439.77
73.8	-1.612	32.708	26.313	.1366	1439.78

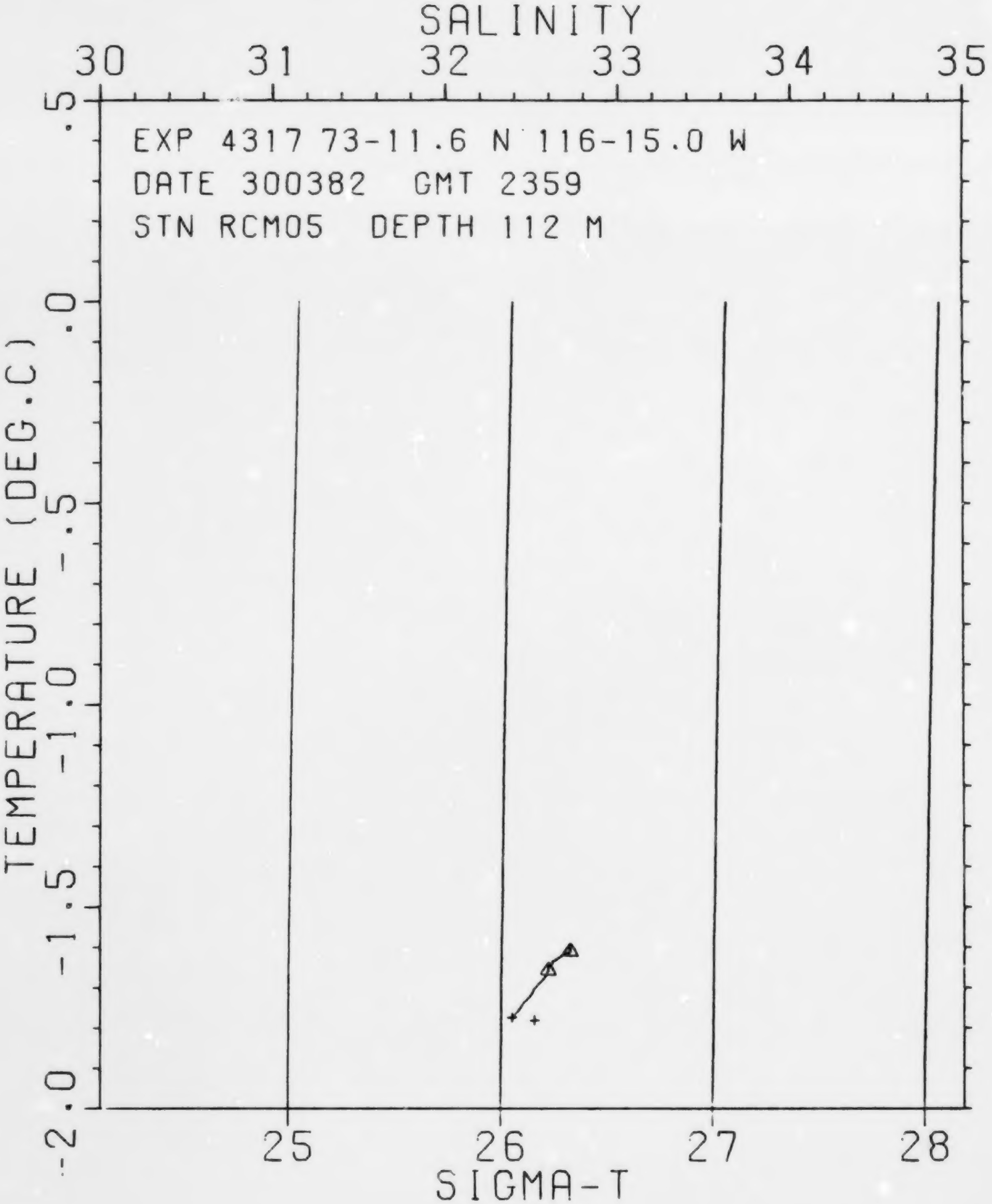

SALINITY
30
31
32
33
34
35
.5
.0
-.5
-1.0
-1.5
-2.0
TEMPERATURE (DEG.C)
EXP 4316 73-12.4 N 116-13.8 W
DATE 300382 GMT 2330
STN RCM04 DEPTH 77 M
25
26
27
28
SIGMA-T

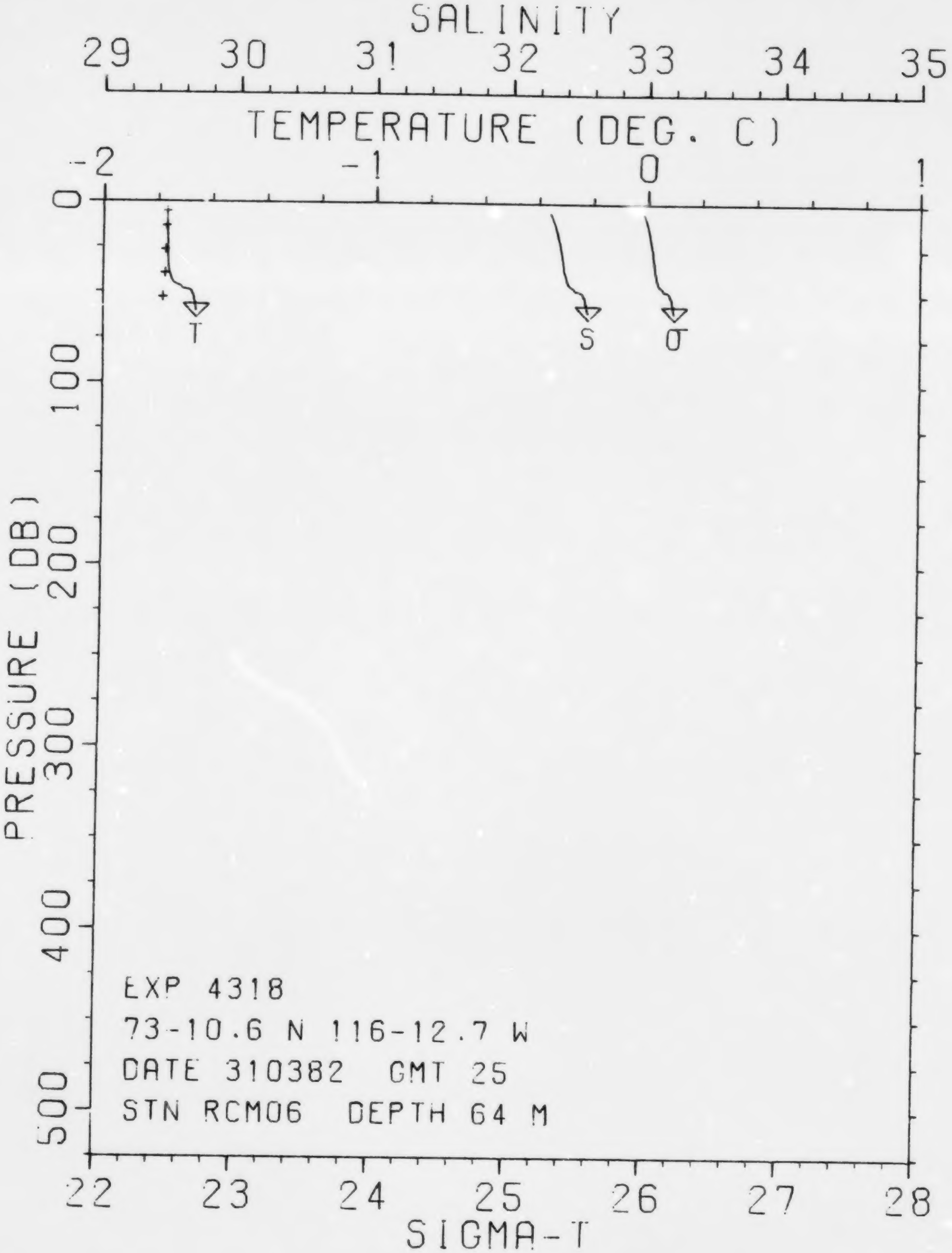

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4317
73-11.6 N 116-15.0 W
DATE 300382 GMT 2359
STN RCM05 DEPTH 112 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION 9CM05 EXPERIMENT NO. 4317 DATE 300382 GMT 2359
LAT. 73-11.6 N LONG. 116-15.0 W
WATER DEPTH 112.5 M ICE THICKNESS 2.1 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.768	32.382	26.051	.0109	1437.47
6.0	-1.768	32.386	26.055	.0118	1437.48
7.0	-1.770	32.388	26.057	.0137	1437.50
8.0	-1.770	32.390	26.058	.0156	1437.51
9.0	-1.769	32.390	26.058	.0176	1437.53
10.0	-1.769	32.390	26.058	.0195	1437.55
11.0	-1.770	32.391	26.059	.0215	1437.56
12.0	-1.770	32.391	26.059	.0234	1437.58
13.0	-1.770	32.392	26.060	.0254	1437.60
14.0	-1.770	32.390	26.059	.0273	1437.61
15.0	-1.770	32.391	26.059	.0292	1437.63
16.0	-1.769	32.391	26.059	.0312	1437.65
17.0	-1.770	32.390	26.059	.0331	1437.66
18.0	-1.769	32.391	26.059	.0350	1437.68
19.0	-1.770	32.392	26.060	.0370	1437.69
20.0	-1.771	32.393	26.061	.0389	1437.71
21.0	-1.771	32.393	26.061	.0409	1437.73
22.0	-1.771	32.393	26.061	.0428	1437.74
23.0	-1.771	32.394	26.061	.0447	1437.76
24.0	-1.770	32.394	26.061	.0467	1437.78
25.0	-1.770	32.395	26.062	.0486	1437.79
27.5	-1.771	32.395	26.063	.0534	1437.84
30.0	-1.770	32.395	26.062	.0583	1437.88
32.5	-1.771	32.396	26.063	.0631	1437.92
35.0	-1.771	32.397	26.064	.0680	1437.96
37.5	-1.769	32.395	26.063	.0728	1438.01
40.0	-1.768	32.397	26.064	.0776	1438.05
42.5	-1.765	32.403	26.069	.0825	1438.12
45.0	-1.749	32.429	26.090	.0873	1438.27
47.5	-1.687	32.541	26.180	.0919	1438.76
50.0	-1.658	32.592	26.220	.0964	1439.02
55.0	-1.637	32.615	26.238	.1053	1439.23
60.0	-1.631	32.634	26.253	.1140	1439.36
65.0	-1.629	32.640	26.258	.1228	1439.47
70.0	-1.624	32.660	26.274	.1315	1439.60
75.0	-1.617	32.685	26.294	.1401	1439.75
80.0	-1.616	32.694	26.302	.1486	1439.85
85.0	-1.616	32.695	26.303	.1572	1439.93
87.0	-1.614	32.695	26.303	.1606	1439.97
88.0	-1.615	32.695	26.303	.1623	1439.99
89.0	-1.615	32.695	26.303	.1640	1440.00
90.0	-1.615	32.697	26.305	.1657	1440.02
91.0	-1.613	32.697	26.304	.1674	1440.04

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
92.0	-1.614	32.701	26.308	.1691	1440.07
93.0	-1.612	32.711	26.316	.1708	1440.11
94.0	-1.611	32.716	26.320	.1724	1440.13
95.0	-1.610	32.717	26.320	.1741	1440.16
96.0	-1.611	32.717	26.320	.1758	1440.17
97.0	-1.611	32.718	26.322	.1775	1440.19
98.0	-1.611	32.718	26.321	.1792	1440.20
99.0	-1.610	32.719	26.322	.1809	1440.22
100.0	-1.610	32.720	26.323	.1826	1440.24
101.0	-1.609	32.721	26.323	.1842	1440.26
102.0	-1.610	32.722	26.324	.1859	1440.28
103.0	-1.609	32.722	26.324	.1876	1440.30
104.0	-1.609	32.722	26.324	.1893	1440.31
105.0	-1.609	32.721	26.324	.1910	1440.33
106.0	-1.609	32.722	26.325	.1926	1440.35
107.0	-1.609	32.722	26.325	.1943	1440.36
108.0	-1.609	32.722	26.324	.1960	1440.38
109.0	-1.610	32.724	26.326	.1977	1440.39
109.4	-1.610	32.723	26.325	.1983	1440.40

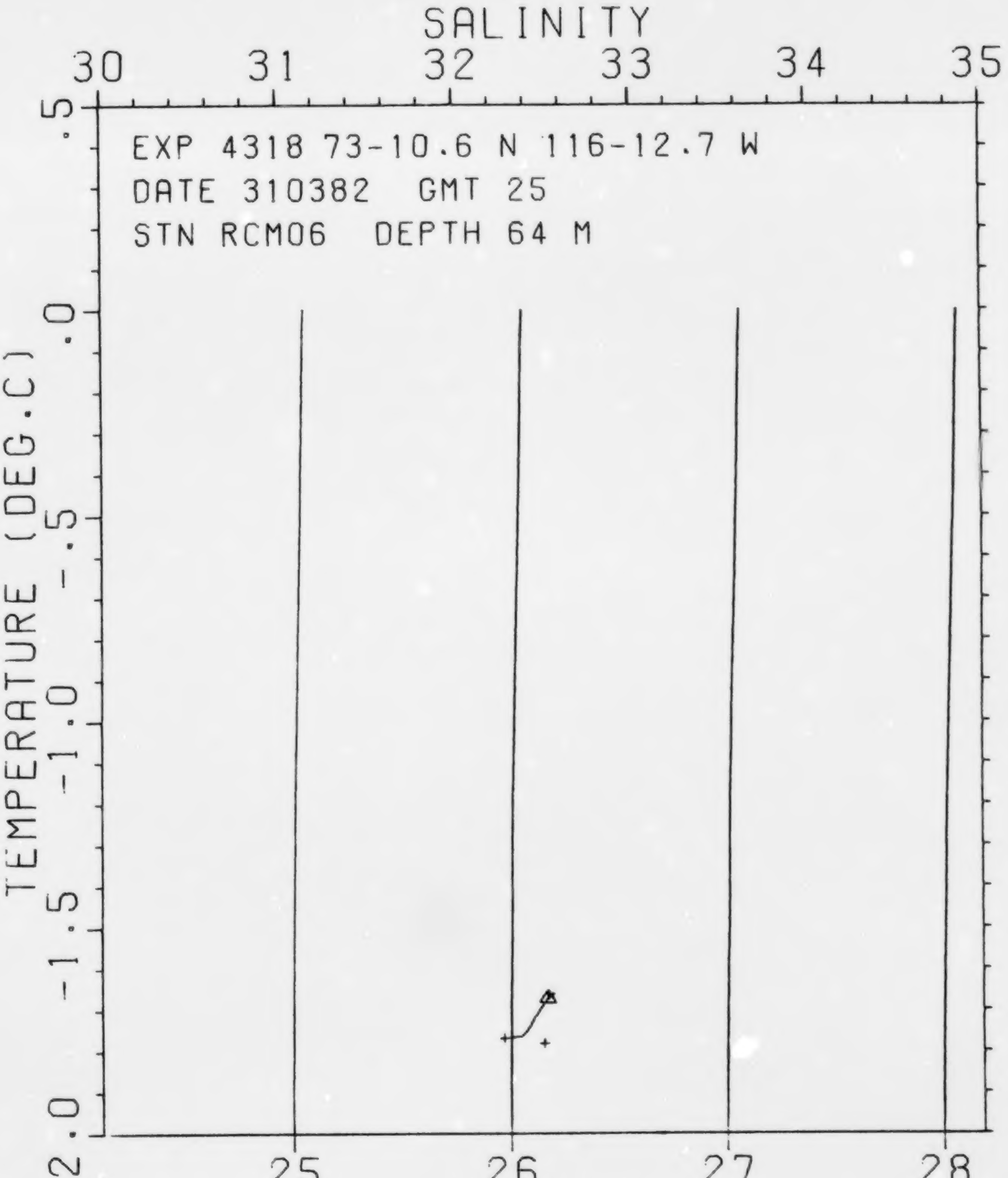

SALINITY
30
31
32
33
34
35
EXP 4317 73-11.6 N 116-15.0 W
DATE 300382 GMT 2359
STN RCM05 DEPTH 112 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

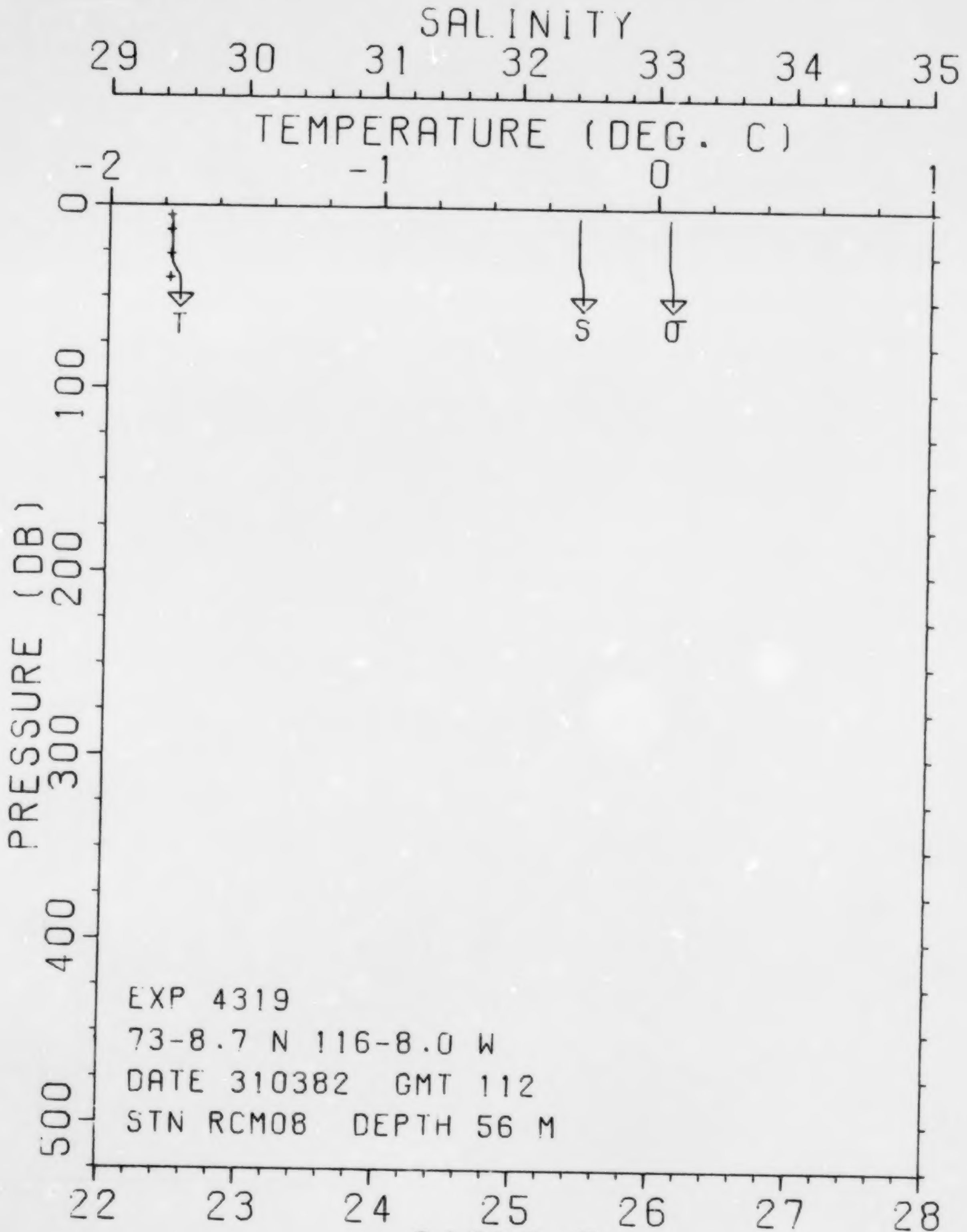

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4318
73-10.6 N 116-12.7 W
DATE 310382 GMT 25
STN RCM06 DEPTH 64 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION RCM06 EXPERIMENT NO. 4318 DATE 310382 GMT 25
LAT. 73-10.6 N LONG. 116-12.7 W
WATER DEPTH 63.9 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.3	-1.767	32.279	25.968	.0109	1437.33
6.0	-1.767	32.288	25.975	.0123	1437.35
7.0	-1.767	32.297	25.982	.0143	1437.38
8.0	-1.768	32.302	25.987	.0163	1437.40
9.0	-1.766	32.306	25.990	.0183	1437.43
10.0	-1.767	32.311	25.994	.0203	1437.45
11.0	-1.766	32.316	25.998	.0223	1437.48
12.0	-1.765	32.320	26.001	.0243	1437.50
13.0	-1.766	32.325	26.005	.0263	1437.52
14.0	-1.765	32.327	26.007	.0283	1437.55
15.0	-1.766	32.332	26.011	.0303	1437.57
16.0	-1.766	32.336	26.014	.0323	1437.59
17.0	-1.766	32.339	26.017	.0343	1437.61
18.0	-1.764	32.341	26.018	.0362	1437.63
19.0	-1.764	32.345	26.021	.0382	1437.66
20.0	-1.764	32.348	26.024	.0402	1437.68
21.0	-1.764	32.350	26.026	.0422	1437.70
22.0	-1.764	32.355	26.030	.0441	1437.72
23.0	-1.763	32.355	26.030	.0461	1437.74
24.0	-1.764	32.359	26.033	.0481	1437.76
25.0	-1.764	32.362	26.035	.0500	1437.78
27.5	-1.763	32.369	26.041	.0549	1437.83
30.0	-1.764	32.375	26.046	.0598	1437.88
32.5	-1.761	32.380	26.050	.0647	1437.94
35.0	-1.761	32.384	26.053	.0695	1437.99
37.5	-1.759	32.388	26.057	.0744	1438.05
38.0	-1.758	32.390	26.058	.0754	1438.06
39.0	-1.759	32.392	26.060	.0773	1438.08
40.0	-1.753	32.398	26.065	.0792	1438.13
41.0	-1.753	32.400	26.066	.0812	1438.15
42.0	-1.751	32.404	26.069	.0831	1438.18
43.0	-1.748	32.408	26.072	.0850	1438.21
44.0	-1.746	32.414	26.077	.0869	1438.25
45.0	-1.741	32.420	26.082	.0889	1438.29
46.0	-1.730	32.434	26.093	.0908	1438.39
47.0	-1.712	32.461	26.115	.0927	1438.52
48.0	-1.710	32.468	26.120	.0945	1438.56
49.0	-1.679	32.508	26.152	.0964	1438.78
50.0	-1.672	32.527	26.167	.0982	1438.86
51.0	-1.673	32.530	26.170	.1001	1438.87
52.0	-1.666	32.541	26.178	.1019	1438.94
53.0	-1.666	32.543	26.180	.1037	1438.96
54.0	-1.667	32.544	26.181	.1055	1438.97

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
55.0	-1.665	32.546	26.182	.1074	1439.00
56.0	-1.661	32.551	26.187	.1092	1439.04
57.0	-1.661	32.553	26.188	.1110	1439.06
58.0	-1.663	32.552	26.187	.1128	1439.07
59.0	-1.660	32.558	26.192	.1146	1439.10
60.0	-1.659	32.559	26.194	.1164	1439.13
60.4	-1.658	32.558	26.193	.1172	1439.14

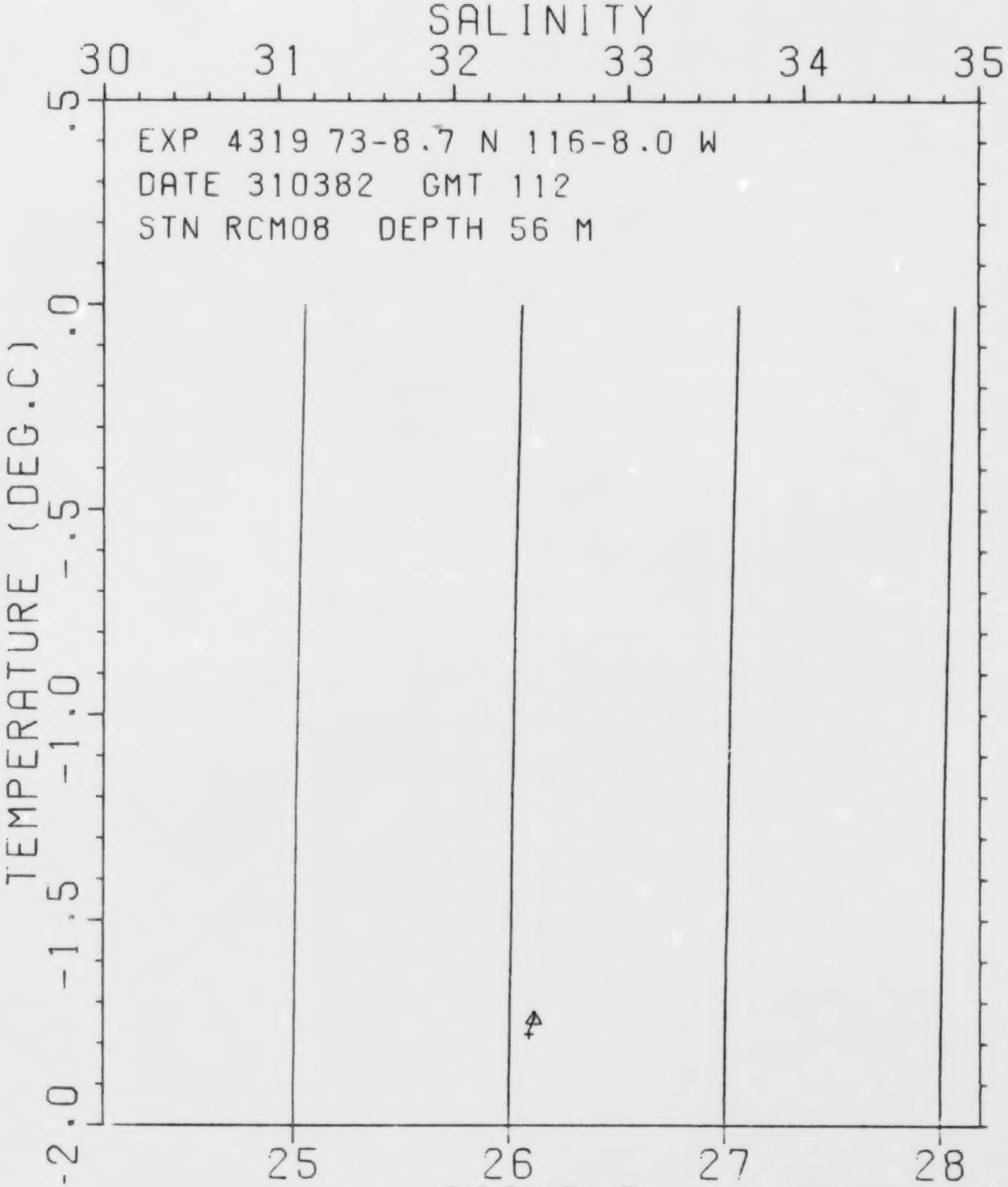

SALINITY
30
31
32
33
34
35
EXP 4318 73-10.6 N 116-12.7 W
DATE 310382 GMT 25
STN RCM06 DEPTH 64 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

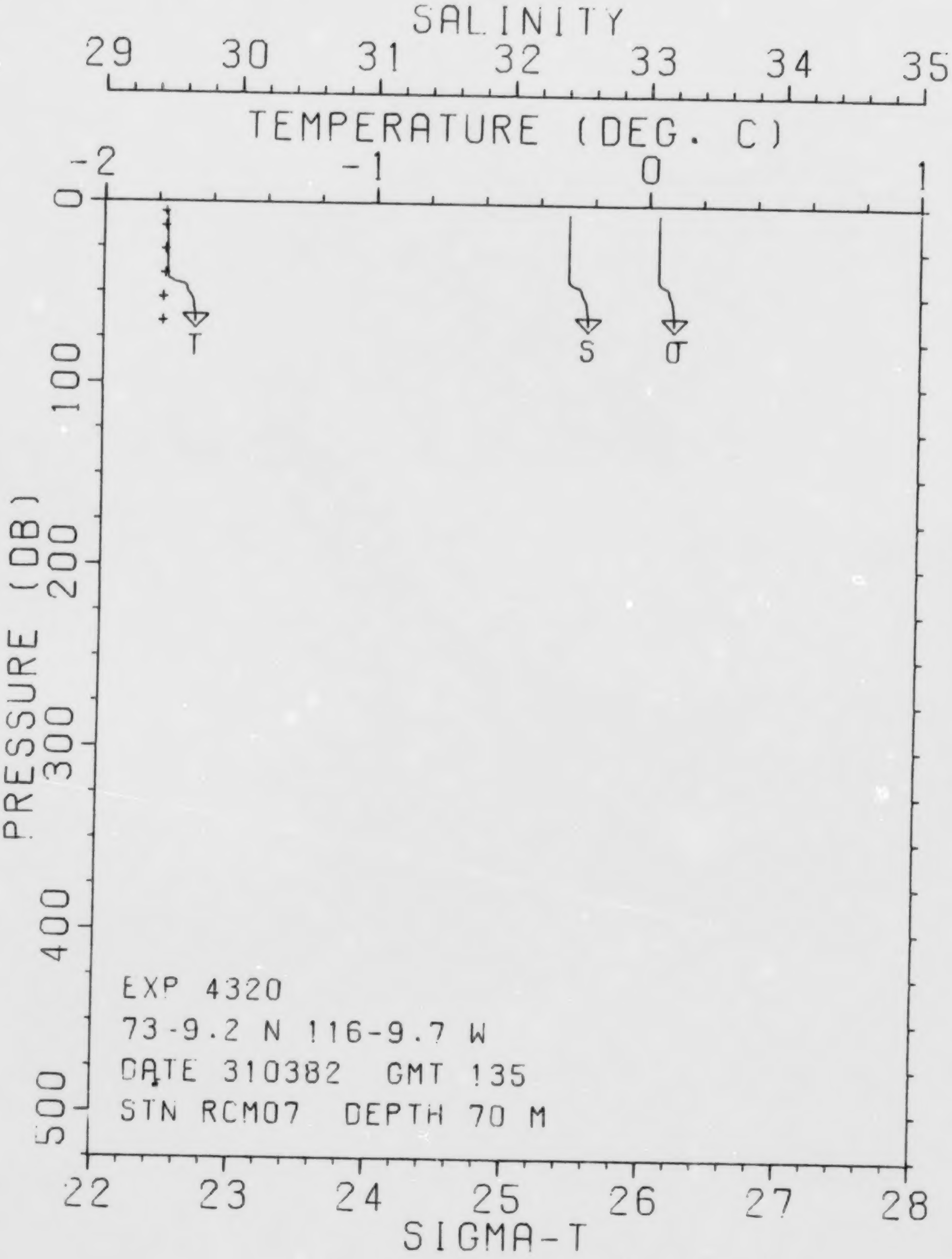

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4319
73-8.7 N 116-8.0 W
DATE 310382 GMT 112
STN RCM08 DEPTH 56 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE C15-82-021 WESTERN NORTH-WEST PASSAGE
STATION RCM08 EXPERIMENT NO. 4319 DATE 310382 GMT 112
LAT. 73-08.7 N LONG. 116-08.0 W
WATER DEPTH 55.8 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.2	-1.772	32.429	26.090	.0099	1437.51
6.0	-1.770	32.429	26.090	.0115	1437.53
7.0	-1.770	32.429	26.090	.0134	1437.55
8.0	-1.771	32.426	26.087	.0153	1437.56
9.0	-1.771	32.425	26.087	.0172	1437.57
10.0	-1.771	32.428	26.089	.0191	1437.59
11.0	-1.770	32.424	26.086	.0210	1437.61
12.0	-1.770	32.425	26.087	.0229	1437.63
13.0	-1.771	32.426	26.087	.0249	1437.64
14.0	-1.771	32.425	26.087	.0268	1437.65
15.0	-1.770	32.423	26.085	.0287	1437.67
16.0	-1.771	32.425	26.087	.0306	1437.69
17.0	-1.770	32.425	26.086	.0325	1437.71
18.0	-1.771	32.426	26.087	.0344	1437.72
19.0	-1.771	32.426	26.087	.0363	1437.74
20.0	-1.771	32.427	26.088	.0382	1437.76
21.0	-1.770	32.426	26.088	.0402	1437.77
22.0	-1.770	32.426	26.088	.0421	1437.79
23.0	-1.770	32.427	26.088	.0440	1437.81
24.0	-1.770	32.427	26.088	.0459	1437.82
25.0	-1.770	32.427	26.089	.0478	1437.84
27.5	-1.770	32.428	26.089	.0526	1437.88
30.0	-1.769	32.427	26.088	.0573	1437.93
31.0	-1.768	32.428	26.089	.0593	1437.95
32.0	-1.768	32.428	26.089	.0612	1437.97
33.0	-1.764	32.433	26.093	.0631	1438.01
34.0	-1.760	32.435	26.095	.0650	1438.05
35.0	-1.754	32.442	26.100	.0669	1438.10
36.0	-1.753	32.443	26.101	.0688	1438.12
37.0	-1.747	32.449	26.105	.0707	1438.18
38.0	-1.741	32.455	26.111	.0726	1438.23
39.0	-1.741	32.454	26.110	.0745	1438.25
40.0	-1.742	32.455	26.110	.0763	1438.26
41.0	-1.739	32.458	26.113	.0782	1438.29
42.0	-1.739	32.457	26.112	.0801	1438.31
43.0	-1.740	32.459	26.113	.0820	1438.32
44.0	-1.740	32.459	26.113	.0839	1438.34
45.0	-1.740	32.458	26.113	.0858	1438.36
46.0	-1.739	32.458	26.113	.0877	1438.38
47.0	-1.740	32.458	26.113	.0895	1438.39
48.0	-1.741	32.459	26.114	.0914	1438.40
49.0	-1.740	32.457	26.112	.0933	1438.42
50.0	-1.740	32.459	26.113	.0952	1438.44

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
51.0	-1.741	32.459	26.114	.0971	1438.45
52.0	-1.741	32.460	26.114	.0990	1438.47
52.0	-1.740	32.459	26.114	.0991	1438.47

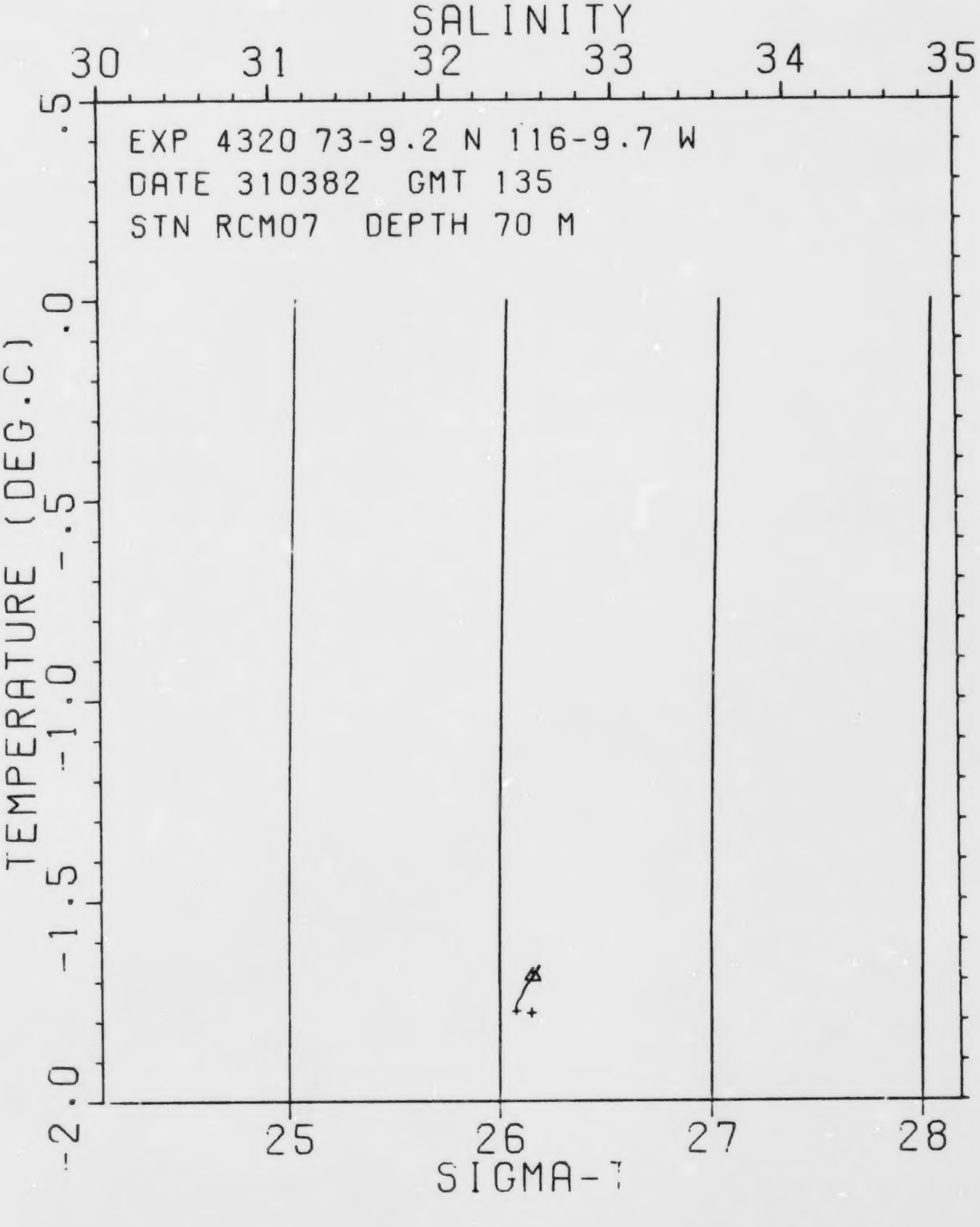

SALINITY
30
31
32
33
34
35
EXP 4319 73-8.7 N 116-8.0 W
DATE 310382 GMT 112
STN RCM08 DEPTH 56 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
4
25
26
27
28
SIGMA-T

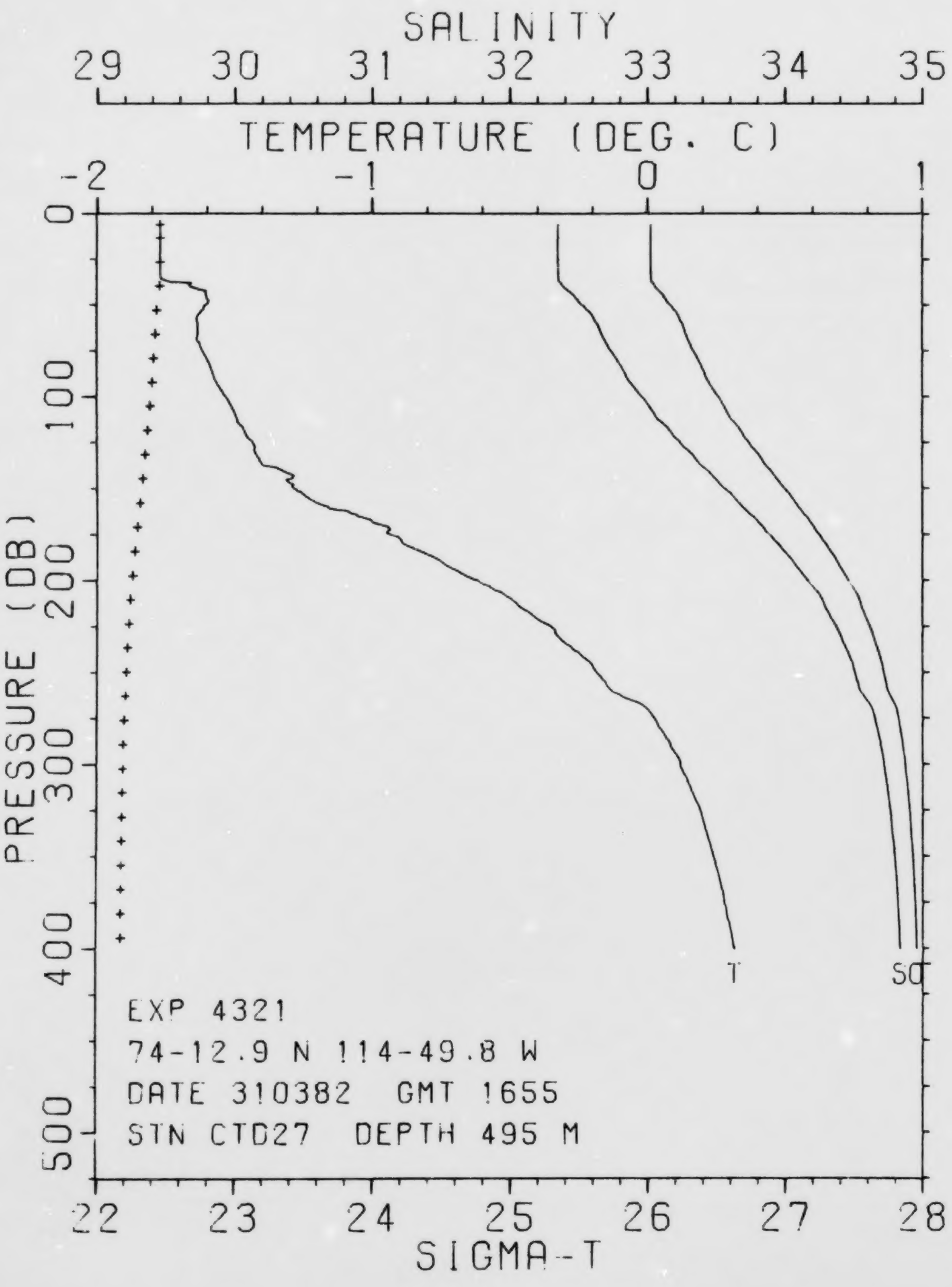

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4320
73-9.2 N 116-9.7 W
DATE 310382 GMT 135
STN RCM07 DEPTH 70 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION RCMD7 EXPERIMENT NO. 4320 DATE 310382 GMT 135
LAT. 73-09.2 N LONG. 116-09.7 W
WATER DEPTH 69.6 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.769	32.412	26.076	.0105	1437.51
6.0	-1.768	32.412	26.076	.0115	1437.52
7.0	-1.768	32.411	26.076	.0135	1437.53
8.0	-1.768	32.412	26.076	.0154	1437.55
9.0	-1.768	32.411	26.075	.0173	1437.57
10.0	-1.768	32.412	26.076	.0192	1437.59
11.0	-1.767	32.411	26.075	.0212	1437.60
12.0	-1.768	32.411	26.075	.0231	1437.62
13.0	-1.769	32.412	26.076	.0250	1437.63
14.0	-1.768	32.411	26.075	.0269	1437.65
15.0	-1.768	32.411	26.075	.0289	1437.67
16.0	-1.769	32.412	26.076	.0308	1437.68
17.0	-1.768	32.411	26.075	.0327	1437.70
18.0	-1.768	32.412	26.076	.0346	1437.72
19.0	-1.767	32.412	26.076	.0366	1437.74
20.0	-1.767	32.412	26.076	.0385	1437.75
21.0	-1.766	32.410	26.075	.0404	1437.77
22.0	-1.767	32.412	26.076	.0423	1437.79
23.0	-1.767	32.412	26.076	.0442	1437.80
24.0	-1.766	32.411	26.075	.0462	1437.82
25.0	-1.766	32.413	26.077	.0481	1437.84
27.5	-1.766	32.412	26.076	.0529	1437.88
30.0	-1.765	32.410	26.075	.0577	1437.92
32.5	-1.767	32.412	26.076	.0625	1437.96
35.0	-1.767	32.412	26.076	.0673	1438.00
37.5	-1.764	32.411	26.075	.0721	1438.05
40.0	-1.765	32.412	26.076	.0769	1438.09
42.5	-1.760	32.414	26.077	.0817	1438.16
44.0	-1.743	32.434	26.094	.0846	1438.29
45.0	-1.717	32.466	26.119	.0865	1438.48
46.0	-1.698	32.497	26.144	.0884	1438.63
47.0	-1.693	32.507	26.152	.0902	1438.68
48.0	-1.692	32.508	26.153	.0921	1438.70
49.0	-1.692	32.512	26.156	.0939	1438.72
50.0	-1.688	32.514	26.157	.0958	1438.76
51.0	-1.682	32.519	26.161	.0976	1438.81
52.0	-1.677	32.529	26.169	.0994	1438.87
53.0	-1.674	32.535	26.174	.1013	1438.91
54.0	-1.671	32.543	26.180	.1031	1438.95
55.0	-1.670	32.546	26.183	.1049	1438.98
56.0	-1.668	32.545	26.182	.1067	1439.00
57.0	-1.666	32.548	26.184	.1085	1439.02
58.0	-1.669	32.549	26.185	.1104	1439.03

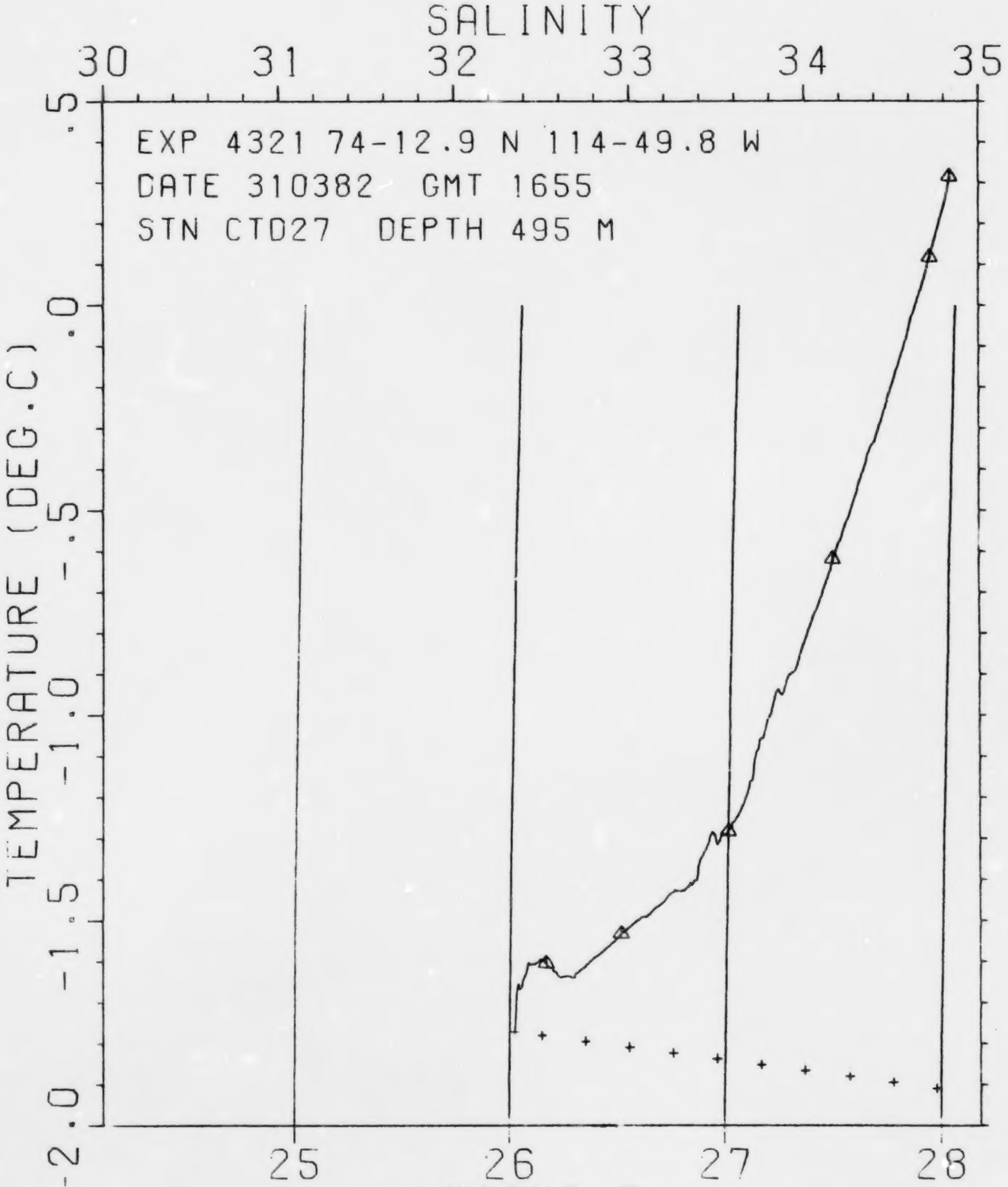
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
59.0	-1.667	32.548	26.184	.1122	1439.06
60.0	-1.665	32.551	26.187	.1140	1439.09
61.0	-1.665	32.554	26.189	.1158	1439.11
62.0	-1.665	32.554	26.189	.1176	1439.12
63.0	-1.664	32.553	26.188	.1194	1439.14
64.0	-1.664	32.553	26.188	.1212	1439.16
65.0	-1.665	32.554	26.189	.1230	1439.17
66.0	-1.664	32.554	26.189	.1249	1439.19
66.4	-1.665	32.554	26.189	.1257	1439.20

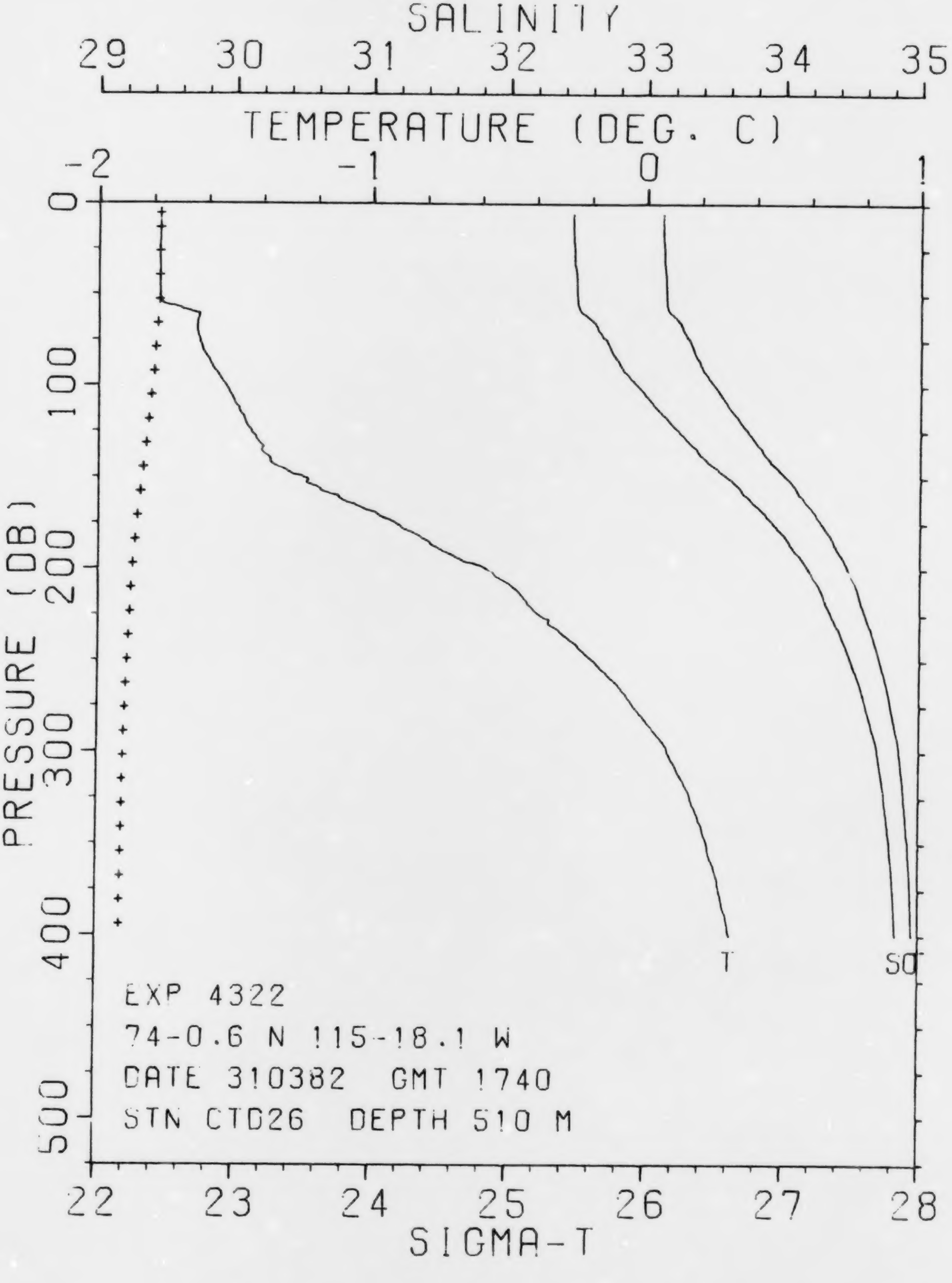

SALINITY
30
31
32
33
34
35
EXP 4320 73-9.2 N 116-9.7 W
DATE 310382 GMT 135
STN RCM07 DEPTH 70 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4321
74-12.9 N 114-49.8 W
DATE 310382 GMT 1655
STN CTD27 DEPTH 495 M
22
23
24
25
26
27
28
SIGMA-T

```
CRUISE 015-82-021  WESTERN NORTH-WEST PASSAGE
STATION CTD27  EXPERIMENT NO.   4321   DATE 310382 GMT 1655
LAT. 74-12.9 N   LONG. 114-49.8 W
WATER DEPTH  495.0 M   ICE THICKNESS 2.0 M


PRESSURE   TEMP    SALINITY  SIGMAT     DHA      SOUND
 (DBARS)  (DEG.C)                     (DYN M)    (M/S)

     5.9   -1.771   32.348   26.024    .0116    1437.41
     6.0   -1.771   32.348   26.024    .0118    1437.37
     7.0   -1.771   32.348   26.024    .0138    1437.43
     8.0   -1.770   32.346   26.022    .0158    1437.45
     9.0   -1.770   32.346   26.022    .0175    1437.47
    10.0   -1.770   32.346   26.023    .0197    1437.48
    11.0   -1.770   32.347   26.023    .0217    1437.50
    12.0   -1.770   32.347   26.023    .0237    1437.52
    13.0   -1.770   32.347   26.023    .0257    1437.53
    14.0   -1.771   32.348   26.024    .0276    1437.55
    15.0   -1.770   32.346   26.022    .0296    1437.57
    16.0   -1.770   32.346   26.023    .0316    1437.58
    17.0   -1.770   32.347   26.023    .0336    1437.60
    18.0   -1.770   32.346   26.022    .0355    1437.61
    19.0   -1.770   32.347   26.023    .0375    1437.63
    20.0   -1.770   32.346   26.022    .0395    1437.65
    21.0   -1.769   32.346   26.022    .0414    1437.67
    22.0   -1.771   32.348   26.024    .0434    1437.68
    23.0   -1.771   32.348   26.024    .0454    1437.69
    24.0   -1.770   32.347   26.023    .0474    1437.71
    25.0   -1.770   32.347   26.024    .0493    1437.73
    27.5   -1.770   32.349   26.025    .0543    1437.77
    30.0   -1.769   32.348   26.024    .0592    1437.82
    32.5   -1.770   32.350   26.026    .0641    1437.86
    35.0   -1.769   32.351   26.026    .0690    1437.90
    37.5   -1.717   32.355   26.028    .0740    1438.20
    40.0   -1.662   32.388   26.054    .0786    1438.54
    42.5   -1.599   32.430   26.087    .0837    1438.94
    45.0   -1.606   32.470   26.119    .0884    1439.01
    47.5   -1.595   32.497   26.142    .0931    1439.14
    50.0   -1.603   32.526   26.165    .0977    1439.19
    55.0   -1.630   32.593   26.220    .1067    1439.23
    60.0   -1.634   32.630   26.250    .1156    1439.34
    65.0   -1.635   32.658   26.273    .1243    1439.46
    70.0   -1.637   32.693   26.302    .1329    1439.59
    75.0   -1.619   32.732   26.333    .1413    1439.81
    80.0   -1.600   32.780   26.372    .1496    1440.05
    85.0   -1.586   32.819   26.403    .1577    1440.25
    90.0   -1.574   32.852   26.429    .1657    1440.43
    95.0   -1.554   32.903   26.470    .1735    1440.66
   100.0   -1.532   32.956   26.513    .1811    1440.94
   105.0   -1.513   33.012   26.558    .1885    1441.19
   110.0   -1.497   33.053   26.591    .1958    1441.41
```

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.483	33.118	26.642	.2028	1441.65
120.0	-1.461	33.178	26.691	.2095	1441.92
125.0	-1.433	33.241	26.741	.2161	1442.22
130.0	-1.425	33.306	26.794	.2224	1442.43
135.0	-1.411	33.363	26.839	.2285	1442.66
140.0	-1.325	33.433	26.894	.2343	1443.25
145.0	-1.307	33.498	26.946	.2399	1443.50
150.0	-1.283	33.560	26.996	.2452	1443.79
155.0	-1.233	33.632	27.053	.2503	1444.20
160.0	-1.157	33.688	27.096	.2551	1444.72
165.0	-1.056	33.761	27.151	.2597	1445.38
170.0	-.962	33.830	27.203	.2641	1445.99
175.0	-.939	33.885	27.248	.2682	1446.26
180.0	-.890	33.951	27.299	.2722	1446.66
185.0	-.813	34.006	27.341	.2758	1447.18
190.0	-.750	34.060	27.382	.2793	1447.63
195.0	-.689	34.112	27.421	.2826	1448.07
200.0	-.619	34.166	27.462	.2858	1448.55
210.0	-.496	34.268	27.539	.2914	1449.43
220.0	-.409	34.330	27.586	.2965	1450.08
230.0	-.330	34.403	27.641	.3011	1450.71
240.0	-.246	34.464	27.686	.3053	1451.35
250.0	-.185	34.508	27.719	.3090	1451.85
260.0	-.132	34.547	27.747	.3126	1452.31
270.0	-.002	34.633	27.810	.3156	1453.19
280.0	.041	34.669	27.837	.3183	1453.60
290.0	.084	34.699	27.859	.3207	1454.00
300.0	.120	34.720	27.874	.3229	1454.36
310.0	.148	34.738	27.887	.3251	1454.68
320.0	.176	34.757	27.900	.3271	1454.99
330.0	.203	34.771	27.911	.3290	1455.30
340.0	.220	34.783	27.919	.3306	1455.56
350.0	.239	34.796	27.929	.3325	1455.82
360.0	.260	34.807	27.936	.3342	1456.10
370.0	.276	34.817	27.943	.3358	1456.35
380.0	.287	34.826	27.950	.3373	1456.58
390.0	.303	34.830	27.953	.3386	1456.82
400.0	.315	34.835	27.956	.3403	1457.04
400.8	.315	34.836	27.956	.3404	1457.06

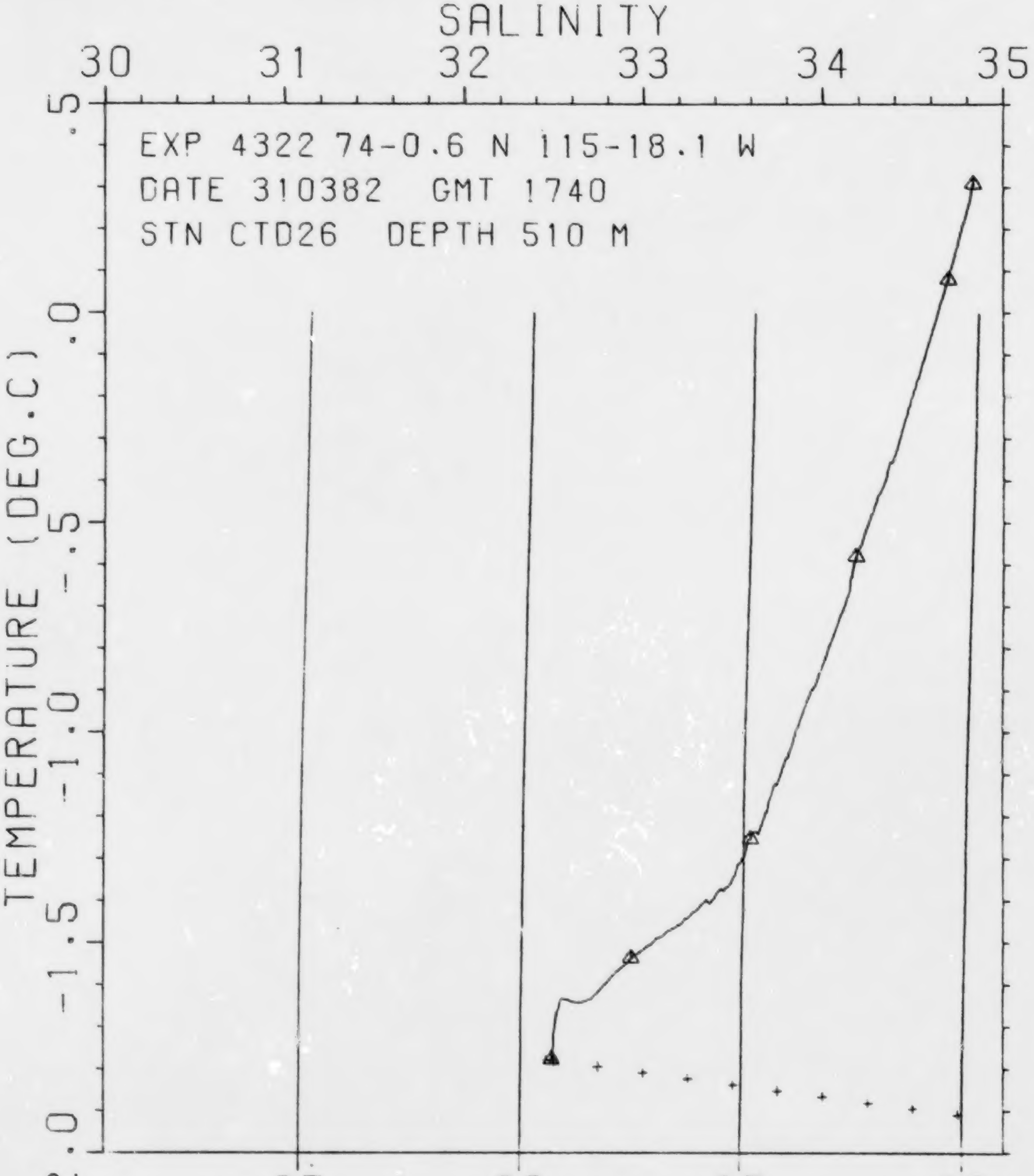

SALINITY
30
31
32
33
34
35
EXP 4321 74-12.9 N 114-49.8 W
DATE 310382 GMT 1655
STN CTD27 DEPTH 495 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

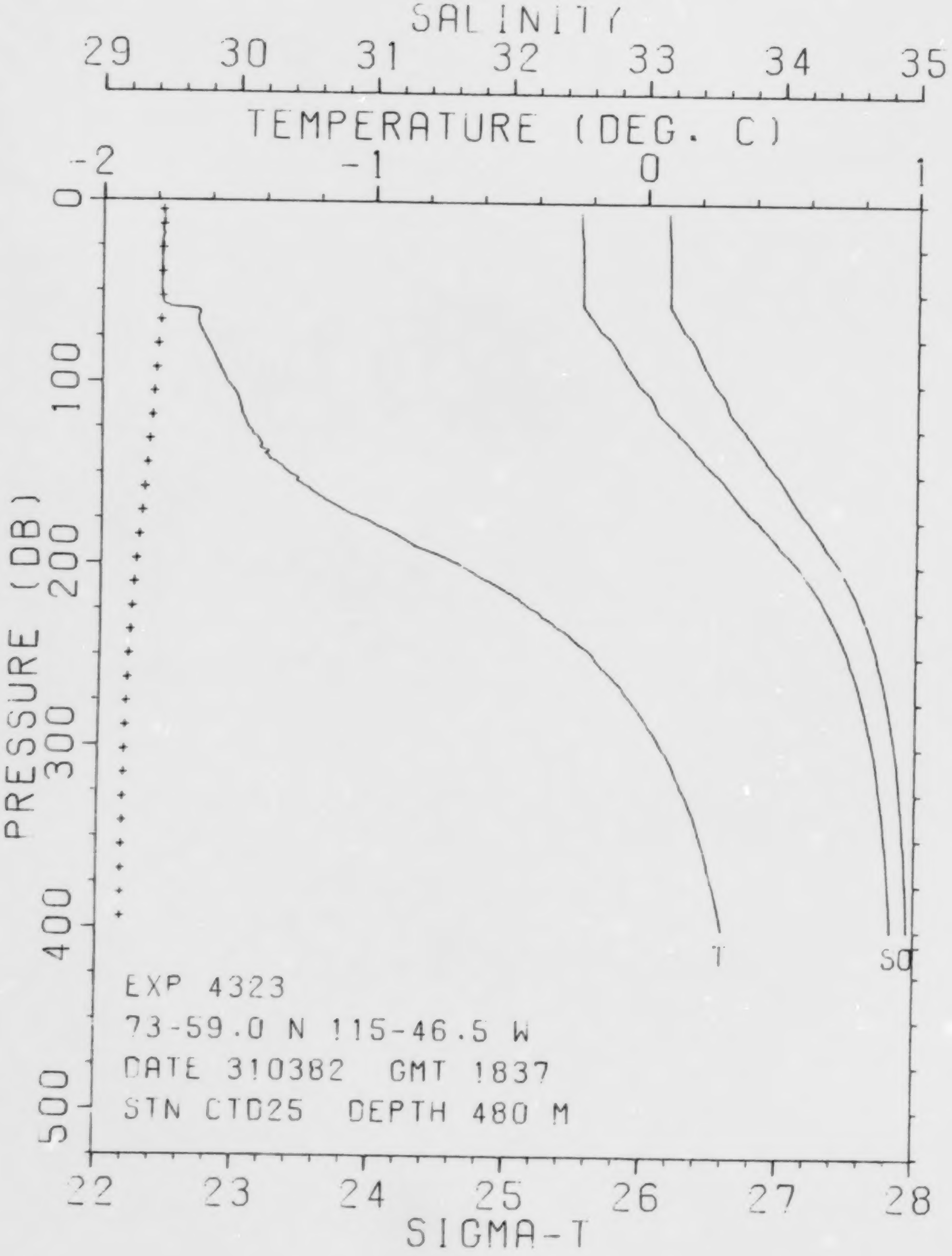

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4322
74-0.6 N 115-18.1 W
DATE 310382 GMT 1740
STN CTD26 DEPTH 510 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD26 EXPERIMENT NO. 4322 DATE 310382 GMT 1740
LAT. 74-00.6 N LONG. 115-18.1 W
WATER DEPTH 510.0 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.778	32.460	26.115	.0102	1437.53
6.0	-1.777	32.460	26.116	.0113	1437.54
7.0	-1.777	32.460	26.115	.0132	1437.56
8.0	-1.776	32.459	26.115	.0151	1437.58
9.0	-1.777	32.460	26.115	.0170	1437.60
10.0	-1.777	32.461	26.116	.0189	1437.61
11.0	-1.777	32.461	26.116	.0208	1437.63
12.0	-1.776	32.460	26.115	.0226	1437.65
13.0	-1.777	32.462	26.117	.0245	1437.66
14.0	-1.778	32.463	26.117	.0264	1437.68
15.0	-1.777	32.462	26.117	.0283	1437.69
16.0	-1.778	32.463	26.118	.0302	1437.71
17.0	-1.778	32.463	26.118	.0321	1437.72
18.0	-1.778	32.463	26.118	.0339	1437.74
19.0	-1.778	32.463	26.118	.0358	1437.76
20.0	-1.778	32.465	26.119	.0377	1437.78
21.0	-1.778	32.467	26.121	.0396	1437.79
22.0	-1.778	32.467	26.121	.0415	1437.81
23.0	-1.780	32.470	26.124	.0433	1437.82
24.0	-1.780	32.472	26.125	.0452	1437.84
25.0	-1.780	32.472	26.125	.0471	1437.86
27.5	-1.780	32.475	26.127	.0518	1437.90
30.0	-1.778	32.472	26.125	.0565	1437.95
32.5	-1.778	32.474	26.126	.0612	1437.99
35.0	-1.777	32.480	26.131	.0658	1438.05
37.5	-1.778	32.487	26.137	.0705	1438.09
40.0	-1.778	32.489	26.139	.0752	1438.14
42.5	-1.779	32.491	26.141	.0798	1438.18
45.0	-1.778	32.491	26.140	.0845	1438.22
47.5	-1.778	32.492	26.141	.0891	1438.27
50.0	-1.777	32.493	26.142	.0936	1438.31
55.0	-1.768	32.495	26.144	.1030	1438.44
60.0	-1.651	32.534	26.173	.1123	1439.13
65.0	-1.641	32.619	26.242	.1212	1439.38
70.0	-1.641	32.653	26.269	.1300	1439.51
75.0	-1.631	32.712	26.317	.1385	1439.72
80.0	-1.621	32.740	26.340	.1469	1439.89
85.0	-1.602	32.781	26.372	.1552	1440.12
90.0	-1.584	32.821	26.404	.1633	1440.34
95.0	-1.561	32.877	26.449	.1712	1440.61
100.0	-1.536	32.938	26.498	.1789	1440.90
105.0	-1.518	32.998	26.546	.1864	1441.15
110.0	-1.501	33.051	26.589	.1936	1441.39

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.483	33.114	26.640	.2007	1441.65
120.0	-1.464	33.176	26.689	.2074	1441.90
125.0	-1.439	33.241	26.742	.2140	1442.19
130.0	-1.419	33.305	26.793	.2203	1442.46
135.0	-1.404	33.371	26.846	.2263	1442.71
140.0	-1.369	33.436	26.897	.2321	1443.04
145.0	-1.335	33.520	26.965	.2377	1443.40
150.0	-1.252	33.600	27.027	.2429	1443.99
155.0	-1.207	33.676	27.088	.2476	1444.39
160.0	-1.128	33.733	27.131	.2525	1444.92
165.0	-1.063	33.800	27.183	.2570	1445.40
170.0	-.982	33.871	27.238	.2612	1445.96
175.0	-.915	33.929	27.282	.2652	1446.44
180.0	-.855	33.991	27.330	.2689	1446.88
185.0	-.793	34.043	27.370	.2725	1447.33
190.0	-.743	34.083	27.400	.2759	1447.70
195.0	-.672	34.143	27.446	.2790	1448.19
200.0	-.579	34.186	27.477	.2821	1448.77
210.0	-.483	34.270	27.540	.2877	1449.49
220.0	-.425	34.321	27.579	.2928	1449.99
230.0	-.356	34.385	27.627	.2975	1450.57
240.0	-.262	34.448	27.674	.3018	1451.25
250.0	-.189	34.502	27.714	.3056	1451.82
260.0	-.124	34.552	27.751	.3091	1452.35
270.0	-.066	34.594	27.782	.3123	1452.84
280.0	-.013	34.629	27.807	.3153	1453.30
290.0	.039	34.670	27.838	.3179	1453.76
300.0	.082	34.698	27.858	.3204	1454.16
310.0	.117	34.721	27.874	.3226	1454.51
320.0	.153	34.742	27.890	.3247	1454.87
330.0	.181	34.757	27.901	.3267	1455.18
340.0	.208	34.776	27.914	.3286	1455.49
350.0	.229	34.794	27.927	.3304	1455.77
360.0	.248	34.805	27.935	.3321	1456.04
370.0	.269	34.815	27.942	.3337	1456.32
380.0	.280	34.822	27.947	.3352	1456.54
390.0	.300	34.829	27.952	.3367	1456.80
400.0	.311	34.835	27.956	.3382	1457.02
400.6	.311	34.836	27.956	.3382	1457.03

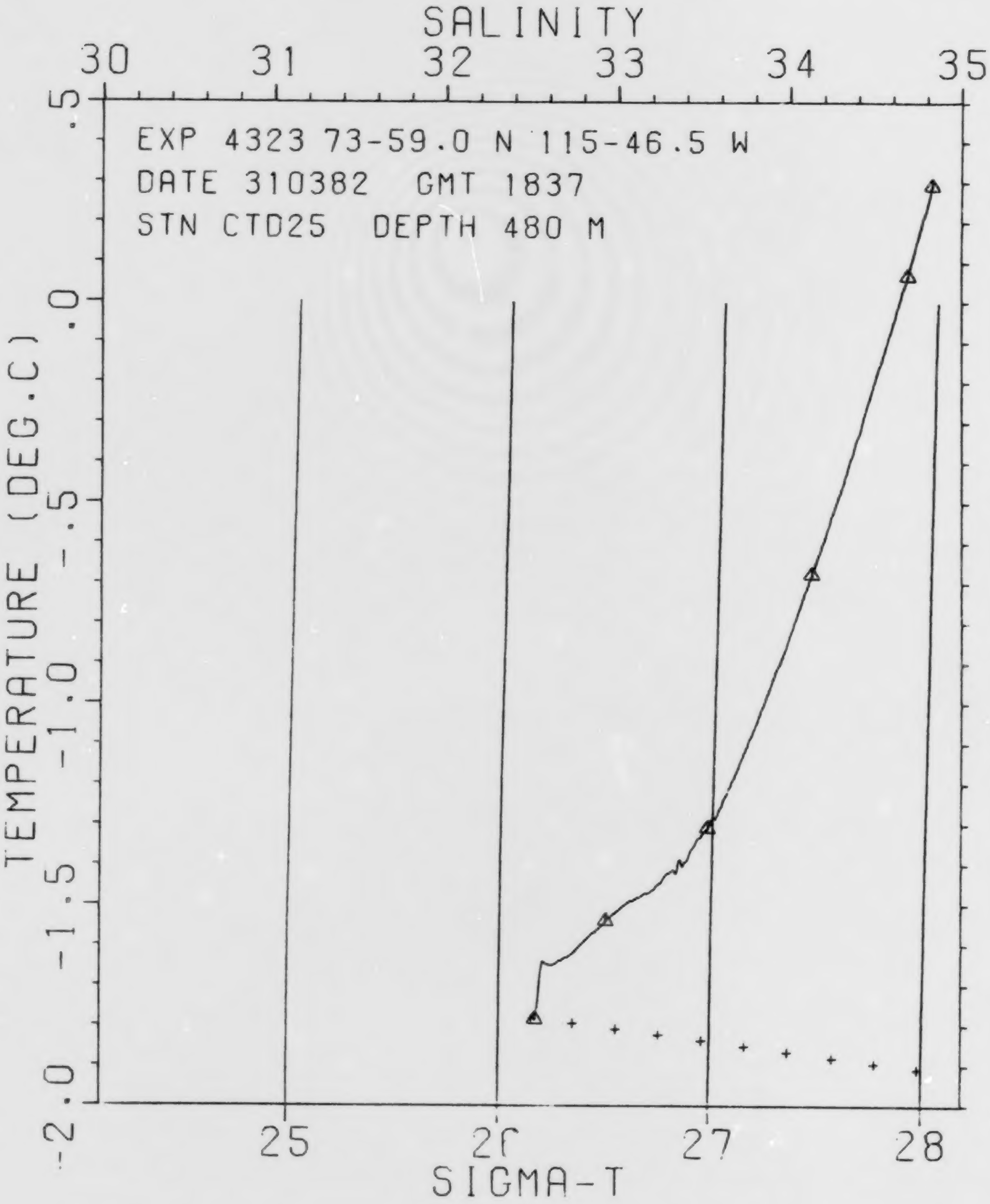

SALINITY
30
31
32
33
34
35
EXP 4322 74-0.6 N 115-18.1 W
DATE 310382 GMT 1740
STN CTD26 DEPTH 510 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

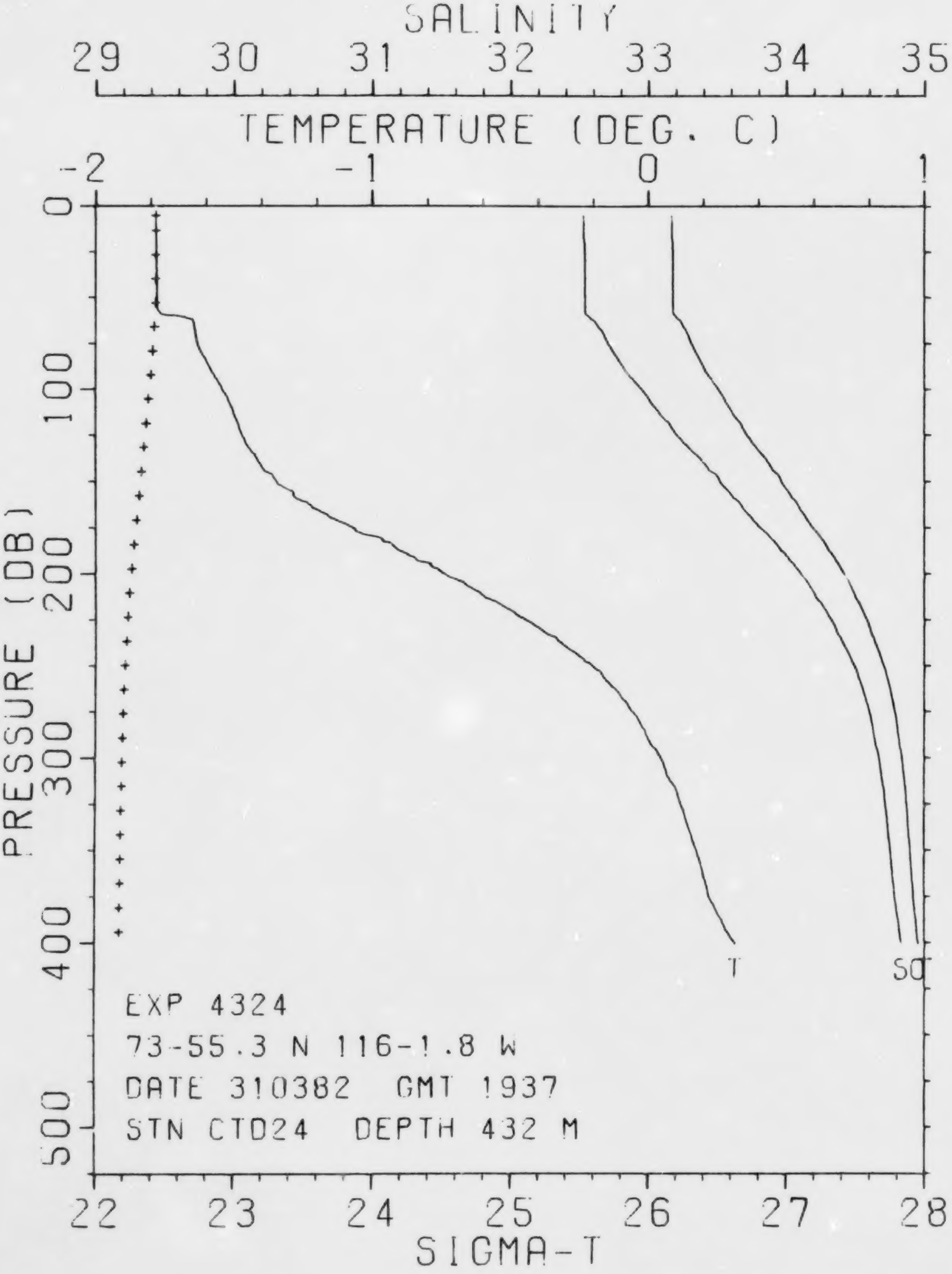

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4323
73-59.0 N 115-46.5 W
DATE 310382 GMT 1837
STN CTD25 DEPTH 480 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD25 EXPERIMENT NO. 4323 DATE 310382 GMT 1837
LAT. 73-59.0 N LONG. 115-46.5 W
WATER DEPTH 480.0 M ICE THICKNESS 1.5 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.2	-1.780	32.510	26.156	.0096	1437.59
6.0	-1.780	32.511	26.157	.0111	1437.60
7.0	-1.777	32.511	26.157	.0130	1437.63
8.0	-1.778	32.512	26.157	.0148	1437.65
9.0	-1.776	32.512	26.158	.0166	1437.67
10.0	-1.776	32.512	26.156	.0185	1437.69
11.0	-1.777	32.515	26.160	.0203	1437.70
12.0	-1.778	32.515	26.160	.0222	1437.71
13.0	-1.778	32.515	26.160	.0240	1437.73
14.0	-1.782	32.515	26.160	.0259	1437.73
15.0	-1.782	32.515	26.160	.0277	1437.74
16.0	-1.782	32.517	26.162	.0296	1437.77
17.0	-1.782	32.518	26.163	.0314	1437.78
18.0	-1.775	32.518	26.162	.0332	1437.83
19.0	-1.777	32.518	26.163	.0351	1437.84
20.0	-1.781	32.524	26.168	.0369	1437.85
21.0	-1.782	32.525	26.168	.0387	1437.86
22.0	-1.783	32.525	26.168	.0406	1437.87
23.0	-1.783	32.525	26.168	.0424	1437.89
24.0	-1.783	32.525	26.168	.0443	1437.90
25.0	-1.784	32.526	26.169	.0461	1437.91
27.5	-1.784	32.527	26.170	.0507	1437.96
30.0	-1.783	32.527	26.170	.0553	1438.00
32.5	-1.784	32.528	26.170	.0598	1438.04
35.0	-1.784	32.528	26.171	.0644	1438.08
37.5	-1.785	32.529	26.172	.0690	1438.12
40.0	-1.784	32.529	26.172	.0736	1438.16
42.5	-1.783	32.529	26.172	.0781	1438.21
45.0	-1.784	32.530	26.172	.0827	1438.25
47.5	-1.784	32.530	26.173	.0873	1438.29
50.0	-1.783	32.530	26.173	.0919	1438.33
55.0	-1.779	32.531	26.173	.1010	1438.44
60.0	-1.646	32.568	26.200	.1101	1439.19
65.0	-1.650	32.613	26.237	.1190	1439.33
70.0	-1.644	32.657	26.273	.1276	1439.50
75.0	-1.624	32.734	26.335	.1363	1439.79
80.0	-1.606	32.761	26.372	.1445	1440.02
85.0	-1.589	32.818	26.402	.1527	1440.23
90.0	-1.575	32.853	26.430	.1606	1440.43
95.0	-1.557	32.905	26.472	.1684	1440.67
100.0	-1.540	32.943	26.502	.1761	1440.89
105.0	-1.513	33.016	26.560	.1835	1441.20
110.0	-1.497	33.059	26.595	.1907	1441.42

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.488	33.068	26.618	.1977	1441.58
120.0	-1.476	33.150	26.669	.2047	1441.81
125.0	-1.460	33.223	26.727	.2113	1442.07
130.0	-1.430	33.283	26.775	.2177	1442.38
135.0	-1.412	33.340	26.821	.2238	1442.62
140.0	-1.393	33.403	26.871	.2298	1442.88
145.0	-1.349	33.462	26.918	.2355	1443.25
150.0	-1.310	33.536	26.977	.2409	1443.62
155.0	-1.276	33.592	27.021	.2461	1443.95
160.0	-1.224	33.643	27.061	.2511	1444.34
165.0	-1.171	33.698	27.104	.2559	1444.75
170.0	-1.108	33.754	27.148	.2605	1445.21
175.0	-1.028	33.830	27.206	.2649	1445.77
180.0	-.962	33.889	27.252	.2690	1446.24
185.0	-.896	33.949	27.298	.2729	1446.72
190.0	-.840	33.998	27.335	.2766	1447.13
195.0	-.749	34.069	27.389	.2801	1447.73
200.0	-.677	34.132	27.437	.2833	1448.23
210.0	-.558	34.229	27.511	.2893	1449.09
220.0	-.451	34.314	27.575	.2945	1449.86
230.0	-.350	34.383	27.625	.2993	1450.59
240.0	-.263	34.450	27.675	.3035	1451.25
250.0	-.182	34.505	27.716	.3074	1451.86
260.0	-.123	34.552	27.751	.3109	1452.36
270.0	-.069	34.593	27.782	.3141	1452.83
280.0	-.016	34.628	27.807	.3170	1453.28
290.0	.026	34.656	27.827	.3197	1453.68
300.0	.066	34.689	27.851	.3222	1454.07
310.0	.107	34.712	27.868	.3245	1454.45
320.0	.134	34.731	27.882	.3267	1454.77
330.0	.166	34.748	27.894	.3288	1455.10
340.0	.192	34.767	27.908	.3307	1455.40
350.0	.212	34.778	27.916	.3326	1455.68
360.0	.233	34.796	27.929	.3343	1455.96
370.0	.250	34.805	27.935	.3360	1456.21
380.0	.267	34.815	27.942	.3376	1456.47
390.0	.282	34.823	27.948	.3391	1456.71
400.0	.294	34.829	27.952	.3406	1456.94
400.3	.294	34.828	27.951	.3407	1456.94

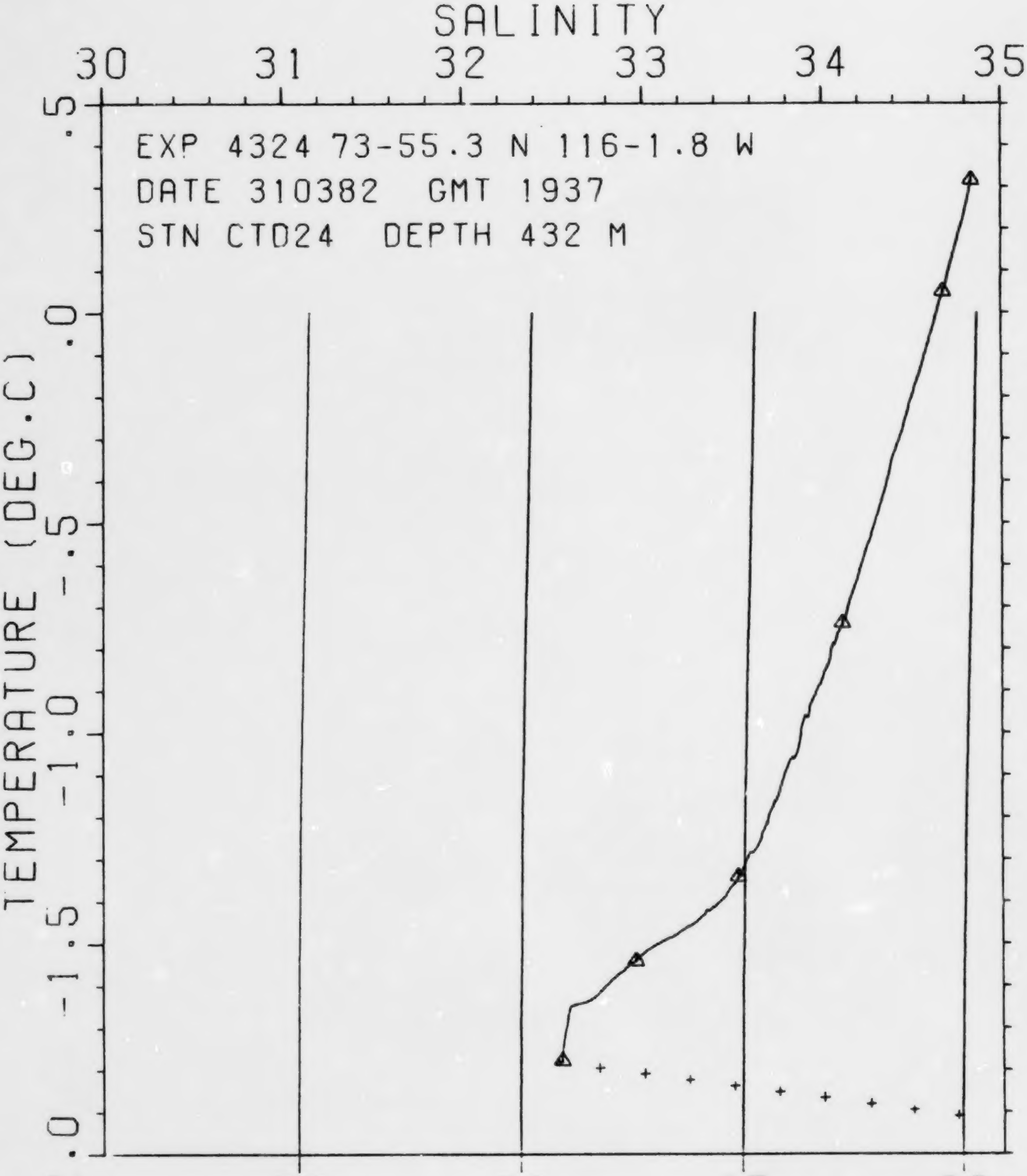

SALINITY
30
31
32
33
34
35
EXP 4323 73-59.0 N 115-46.5 W
DATE 310382 GMT 1837
STN CTD25 DEPTH 480 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

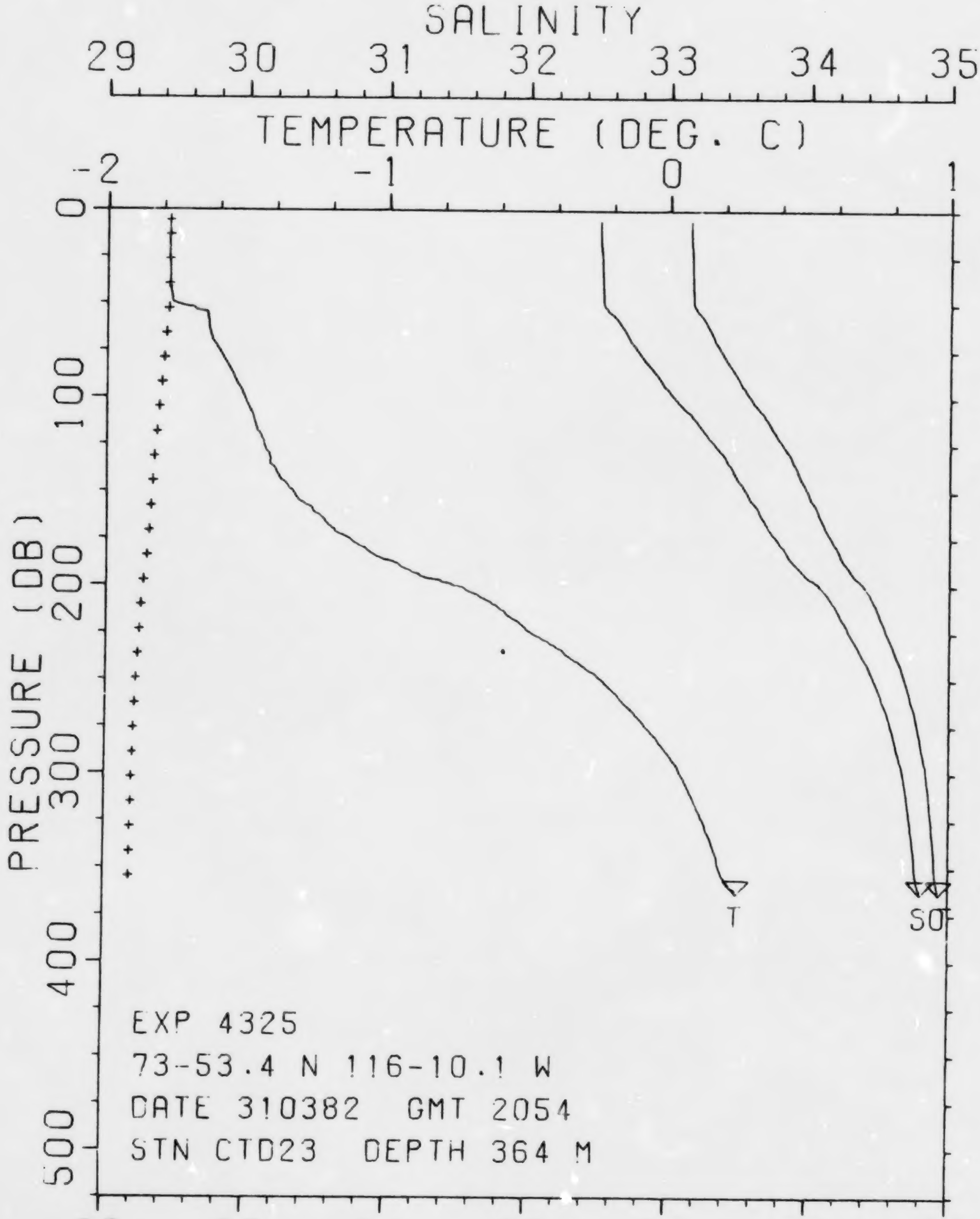

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4324
73-55.3 N 116-1.8 W
DATE 310382 GMT 1937
STN CTD24 DEPTH 432 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD24 EXPERIMENT NO. 4324 DATE 310382 GMT 1937
LAT. 73-55.3 N LONG. 116-01.8 W
WATER DEPTH 432.0 M ICE THICKNESS 3.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.1	-1.782	32.527	26.170	.0095	1437.60
6.0	-1.782	32.534	26.176	.0111	1437.63
7.0	-1.781	32.533	26.175	.0129	1437.64
8.0	-1.781	32.535	26.176	.0147	1437.66
9.0	-1.781	32.534	26.175	.0166	1437.68
10.0	-1.781	32.534	26.176	.0184	1437.69
11.0	-1.781	32.533	26.175	.0202	1437.71
12.0	-1.781	32.533	26.175	.0221	1437.72
13.0	-1.781	32.533	26.175	.0239	1437.74
14.0	-1.780	32.532	26.174	.0257	1437.76
15.0	-1.781	32.535	26.176	.0275	1437.78
16.0	-1.780	32.533	26.175	.0294	1437.80
17.0	-1.782	32.535	26.177	.0312	1437.81
18.0	-1.779	32.535	26.176	.0330	1437.84
19.0	-1.780	32.539	26.179	.0349	1437.86
20.0	-1.779	32.541	26.181	.0367	1437.88
21.0	-1.780	32.542	26.182	.0385	1437.89
22.0	-1.779	32.541	26.181	.0403	1437.91
23.0	-1.779	32.542	26.182	.0421	1437.93
24.0	-1.781	32.545	26.184	.0440	1437.94
25.0	-1.779	32.543	26.183	.0458	1437.96
27.5	-1.778	32.544	26.183	.0503	1438.01
30.0	-1.779	32.545	26.185	.0549	1438.05
32.5	-1.778	32.545	26.184	.0594	1438.09
35.0	-1.777	32.544	26.184	.0640	1438.14
37.5	-1.777	32.545	26.185	.0685	1438.18
40.0	-1.777	32.545	26.184	.0731	1438.22
42.5	-1.778	32.546	26.185	.0776	1438.26
45.0	-1.777	32.546	26.185	.0822	1438.30
47.5	-1.777	32.545	26.185	.0867	1438.35
50.0	-1.777	32.546	26.185	.0912	1438.39
55.0	-1.775	32.546	26.185	.1003	1438.47
60.0	-1.695	32.573	26.205	.1094	1438.98
65.0	-1.643	32.637	26.256	.1183	1439.39
70.0	-1.638	32.682	26.293	.1269	1439.56
75.0	-1.630	32.711	26.316	.1354	1439.73
80.0	-1.615	32.753	26.350	.1438	1439.94
85.0	-1.596	32.799	26.386	.1520	1440.16
90.0	-1.580	32.840	26.419	.1600	1440.39
95.0	-1.557	32.898	26.466	.1679	1440.66
100.0	-1.540	32.954	26.512	.1755	1440.90
105.0	-1.519	33.007	26.554	.1829	1441.16
110.0	-1.505	33.058	26.595	.1901	1441.38

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.494	33.107	26.634	.1972	1441.58
120.0	-1.480	33.169	26.685	.2040	1441.82
125.0	-1.467	33.212	26.719	.2106	1442.02
130.0	-1.452	33.273	26.767	.2170	1442.26
135.0	-1.427	33.345	26.826	.2231	1442.56
140.0	-1.408	33.408	26.876	.2290	1442.82
145.0	-1.381	33.465	26.922	.2347	1443.11
150.0	-1.344	33.527	26.971	.2401	1443.45
155.0	-1.296	33.585	27.017	.2454	1443.84
160.0	-1.263	33.645	27.064	.2504	1444.16
165.0	-1.204	33.695	27.103	.2552	1444.59
170.0	-1.142	33.758	27.152	.2598	1445.05
175.0	-1.071	33.816	27.196	.2641	1445.55
180.0	-.983	33.888	27.252	.2683	1446.14
185.0	-.920	33.946	27.296	.2722	1446.60
190.0	-.871	34.004	27.341	.2759	1446.99
195.0	-.791	34.062	27.385	.2794	1447.53
200.0	-.740	34.112	27.423	.2827	1447.92
210.0	-.613	34.207	27.495	.2887	1448.80
220.0	-.496	34.293	27.559	.2942	1449.63
230.0	-.391	34.366	27.614	.2990	1450.38
240.0	-.291	34.433	27.663	.3034	1451.09
250.0	-.201	34.499	27.712	.3073	1451.76
260.0	-.136	34.548	27.749	.3109	1452.30
270.0	-.076	34.588	27.777	.3141	1452.79
280.0	-.029	34.622	27.803	.3170	1453.21
290.0	.004	34.645	27.820	.3198	1453.56
300.0	.050	34.678	27.844	.3224	1453.98
310.0	.074	34.695	27.856	.3248	1454.28
320.0	.112	34.717	27.871	.3271	1454.65
330.0	.136	34.732	27.883	.3292	1454.94
340.0	.155	34.743	27.891	.3313	1455.20
350.0	.179	34.758	27.901	.3333	1455.50
360.0	.198	34.769	27.909	.3352	1455.76
370.0	.217	34.785	27.921	.3370	1456.04
380.0	.241	34.799	27.931	.3388	1456.33
390.0	.274	34.816	27.942	.3404	1456.66
400.0	.316	34.836	27.956	.3419	1457.05
401.1	.318	34.838	27.957	.3420	1457.08


SALINITY
30
31
32
33
34
35
.5
.0
-.5
-1.0
-1.5
-2.0
TEMPERATURE (DEG.C)
EXP 4324 73-55.3 N 116-1.8 W
DATE 310382 GMT 1937
STN CTD24 DEPTH 432 M
25
26
27
28
SIGMA-T

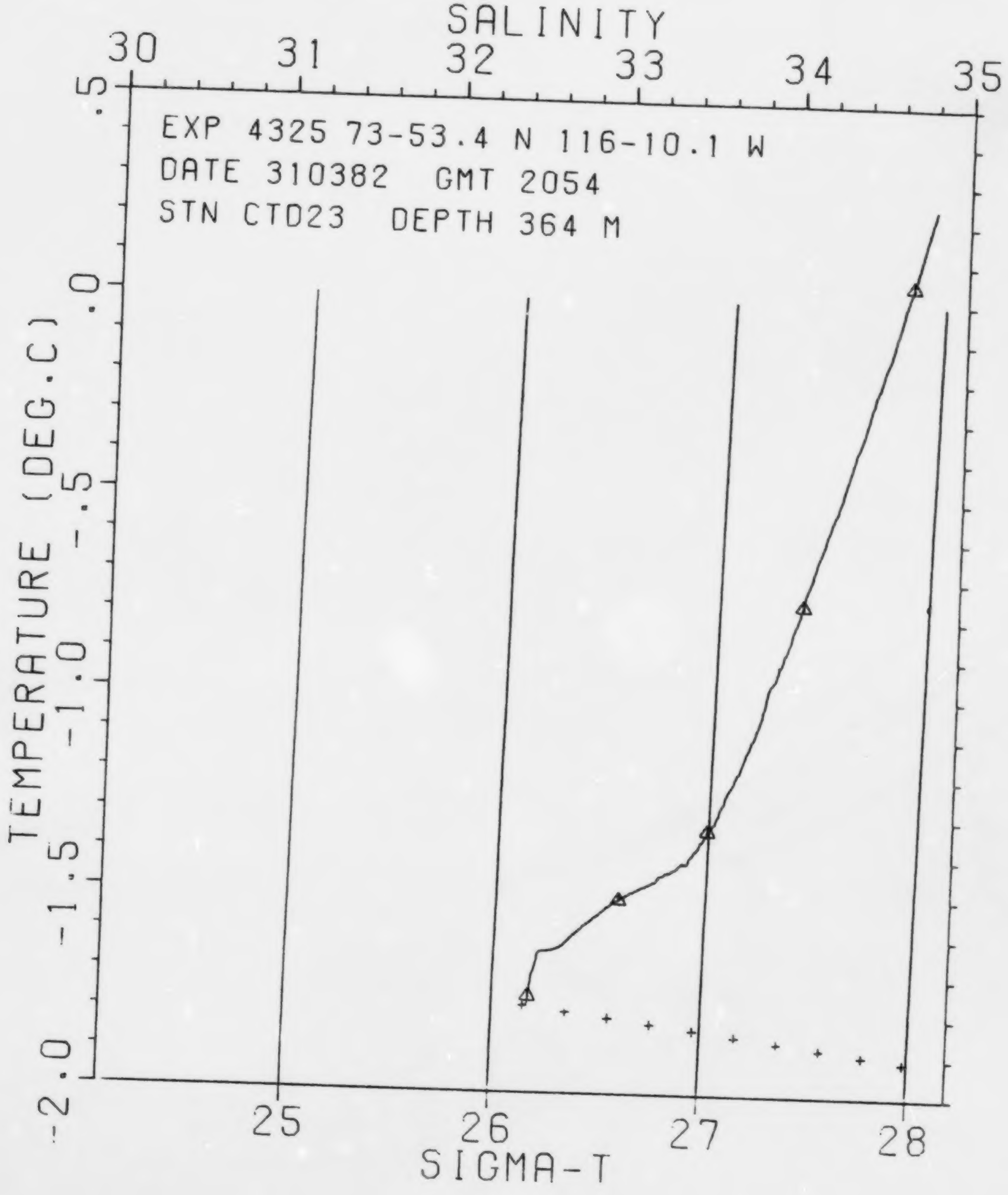

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
SO
EXP 4325
73-53.4 N 116-10.1 W
DATE 310382 GMT 2054
STN CTD23 DEPTH 364 M
22
23
24
25
26
27
28
SIGMA-T

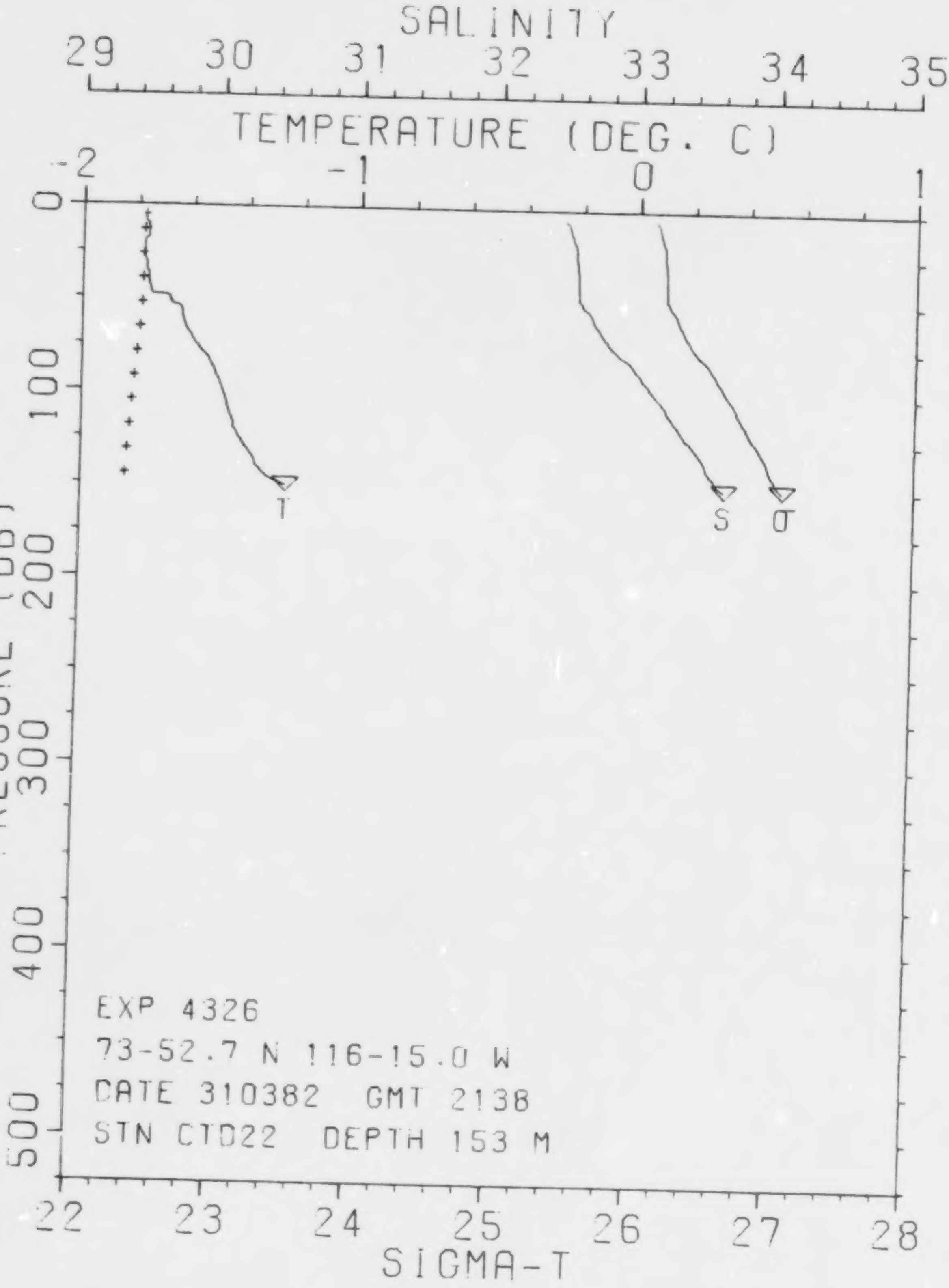
CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD23 EXPERIMENT NO. 4325 DATE 310382 GMT 2054
LAT. 73-53.4 N LONG. 116-10.1 W
WATER DEPTH 363.5 M ICE THICKNESS 1.5 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.780	32.501	26.149	.0103	1437.58
6.0	-1.779	32.502	26.149	.0112	1437.59
7.0	-1.779	32.502	26.150	.0130	1437.61
8.0	-1.779	32.503	26.150	.0149	1437.63
9.0	-1.779	32.503	26.150	.0167	1437.65
10.0	-1.779	32.503	26.150	.0186	1437.66
11.0	-1.779	32.503	26.151	.0204	1437.68
12.0	-1.779	32.503	26.151	.0223	1437.70
13.0	-1.779	32.504	26.151	.0241	1437.71
14.0	-1.780	32.505	26.152	.0260	1437.72
15.0	-1.781	32.506	26.153	.0278	1437.74
16.0	-1.779	32.504	26.151	.0297	1437.76
17.0	-1.781	32.507	26.153	.0315	1437.77
18.0	-1.780	32.507	26.153	.0334	1437.79
19.0	-1.780	32.508	26.154	.0352	1437.81
20.0	-1.779	32.511	26.157	.0371	1437.84
21.0	-1.780	32.512	26.158	.0389	1437.85
22.0	-1.779	32.512	26.158	.0408	1437.87
23.0	-1.781	32.516	26.161	.0426	1437.88
24.0	-1.780	32.515	26.160	.0445	1437.90
25.0	-1.781	32.516	26.161	.0463	1437.91
27.5	-1.780	32.517	26.161	.0509	1437.96
30.0	-1.777	32.517	26.162	.0555	1438.02
32.5	-1.777	32.519	26.163	.0601	1438.06
35.0	-1.776	32.520	26.164	.0647	1438.11
37.5	-1.777	32.522	26.165	.0693	1438.15
40.0	-1.777	32.523	26.166	.0739	1438.19
42.5	-1.775	32.526	26.169	.0785	1438.25
45.0	-1.772	32.528	26.171	.0831	1438.30
47.5	-1.769	32.528	26.171	.0876	1438.36
50.0	-1.757	32.530	26.172	.0922	1438.46
55.0	-1.641	32.588	26.216	.1013	1439.17
60.0	-1.639	32.648	26.265	.1101	1439.35
65.0	-1.635	32.694	26.302	.1187	1439.51
70.0	-1.625	32.724	26.326	.1272	1439.68
75.0	-1.601	32.777	26.369	.1355	1439.96
80.0	-1.582	32.826	26.408	.1436	1440.19
85.0	-1.562	32.887	26.458	.1515	1440.46
90.0	-1.546	32.938	26.498	.1591	1440.69
95.0	-1.525	32.988	26.539	.1667	1440.94
100.0	-1.511	33.044	26.583	.1739	1441.17
105.0	-1.494	33.103	26.631	.1810	1441.41
110.0	-1.479	33.169	26.684	.1878	1441.66

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.470	33.222	26.727	.1944	1441.86
120.0	-1.454	33.275	26.770	.2008	1442.09
125.0	-1.442	33.330	26.814	.2070	1442.31
130.0	-1.422	33.392	26.863	.2130	1442.57
135.0	-1.420	33.424	26.889	.2188	1442.70
140.0	-1.395	33.467	26.923	.2244	1442.97
145.0	-1.366	33.508	26.956	.2299	1443.24
150.0	-1.336	33.555	26.993	.2352	1443.53
155.0	-1.315	33.591	27.022	.2404	1443.76
160.0	-1.264	33.641	27.061	.2453	1444.15
165.0	-1.225	33.678	27.090	.2502	1444.47
170.0	-1.192	33.712	27.116	.2549	1444.75
175.0	-1.138	33.768	27.160	.2594	1445.17
180.0	-1.081	33.823	27.202	.2638	1445.60
185.0	-1.033	33.860	27.230	.2679	1445.95
190.0	-.953	33.922	27.278	.2719	1446.49
195.0	-.884	33.984	27.325	.2757	1446.98
200.0	-.764	34.078	27.397	.2792	1447.76
210.0	-.622	34.183	27.476	.2854	1448.72
220.0	-.528	34.261	27.535	.2911	1449.44
230.0	-.425	34.332	27.588	.2962	1450.17
240.0	-.330	34.409	27.645	.3008	1450.88
250.0	-.236	34.471	27.691	.3049	1451.57
260.0	-.170	34.520	27.728	.3086	1452.10
270.0	-.105	34.572	27.766	.3120	1452.64
280.0	-.047	34.610	27.794	.3151	1453.12
290.0	.006	34.642	27.817	.3179	1453.57
300.0	.047	34.675	27.841	.3205	1453.96
310.0	.081	34.698	27.858	.3229	1454.31
320.0	.114	34.717	27.872	.3252	1454.65
330.0	.140	34.733	27.883	.3273	1454.96
338.0	.163	34.748	27.894	.3290	1455.21
339.0	.165	34.751	27.896	.3292	1455.25
340.0	.168	34.753	27.897	.3294	1455.28
341.0	.171	34.752	27.897	.3296	1455.31
342.0	.175	34.756	27.900	.3298	1455.35
343.0	.177	34.757	27.900	.3300	1455.37
344.0	.178	34.758	27.901	.3302	1455.39
345.0	.182	34.759	27.901	.3303	1455.43
346.0	.182	34.759	27.902	.3305	1455.45
347.0	.181	34.761	27.903	.3307	1455.46
348.0	.181	34.762	27.904	.3309	1455.48
349.0	.184	34.762	27.904	.3311	1455.51
350.0	.187	34.763	27.905	.3313	1455.54
351.0	.189	34.764	27.906	.3315	1455.57
352.0	.192	34.769	27.909	.3317	1455.61
353.0	.194	34.768	27.908	.3319	1455.63
354.0	.196	34.770	27.910	.3321	1455.66
355.0	.200	34.771	27.911	.3323	1455.69

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
355.0	.200	34.771	27.911	.3323	1455.69
356.0	.207	34.776	27.914	.3324	1455.75
357.0	.215	34.777	27.915	.3326	1455.80
358.0	.215	34.780	27.917	.3328	1455.83
359.0	.222	34.787	27.922	.3330	1455.88
360.0	.227	34.787	27.922	.3332	1455.92
361.0	.238	34.794	27.927	.3333	1456.00
362.0	.246	34.800	27.931	.3335	1456.06
362.4	.245	34.800	27.931	.3336	1456.06

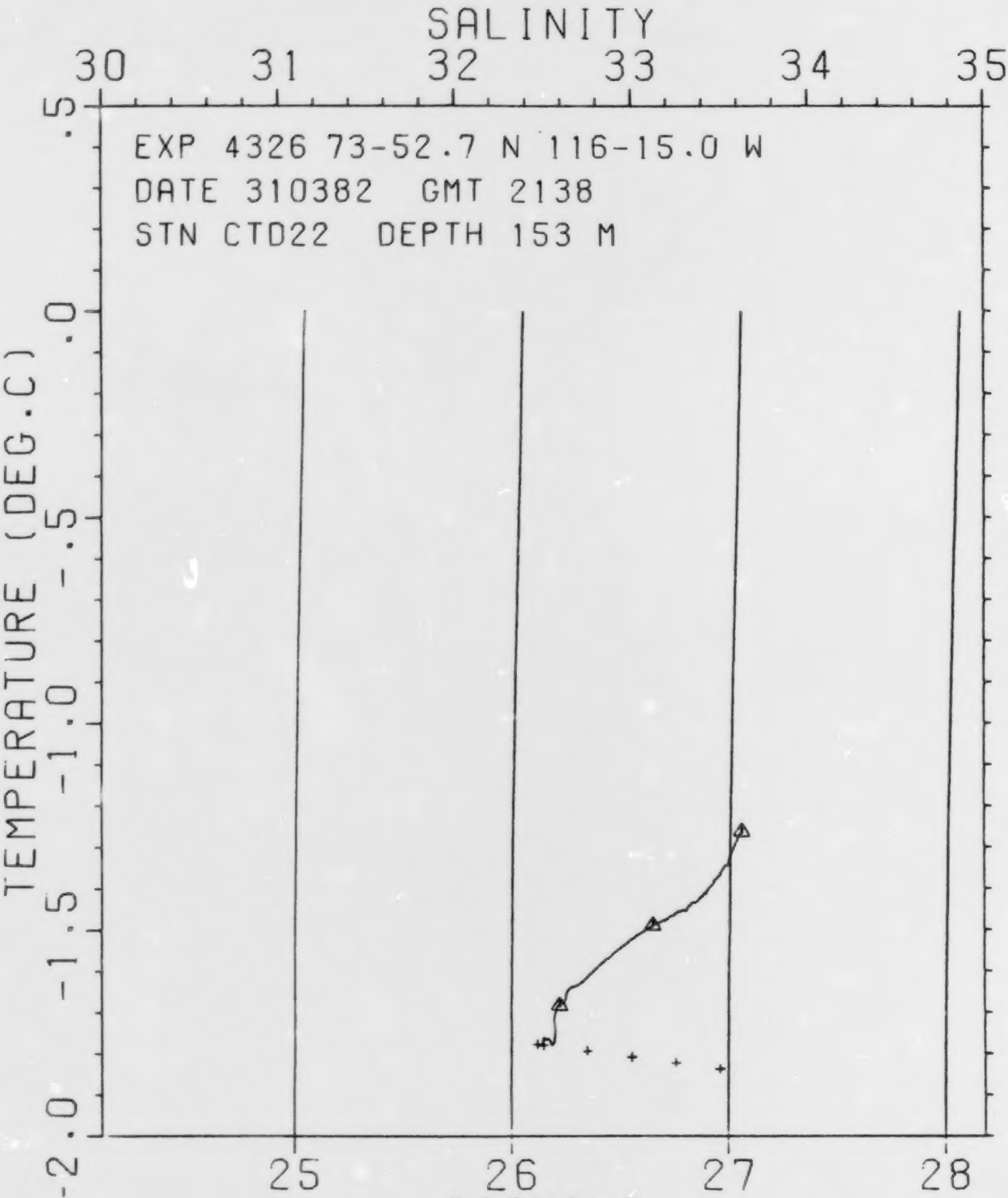

SALINITY
30
31
32
33
34
35
EXP 4325 73-53.4 N 116-10.1 W
DATE 310382 GMT 2054
STN CTD23 DEPTH 364 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

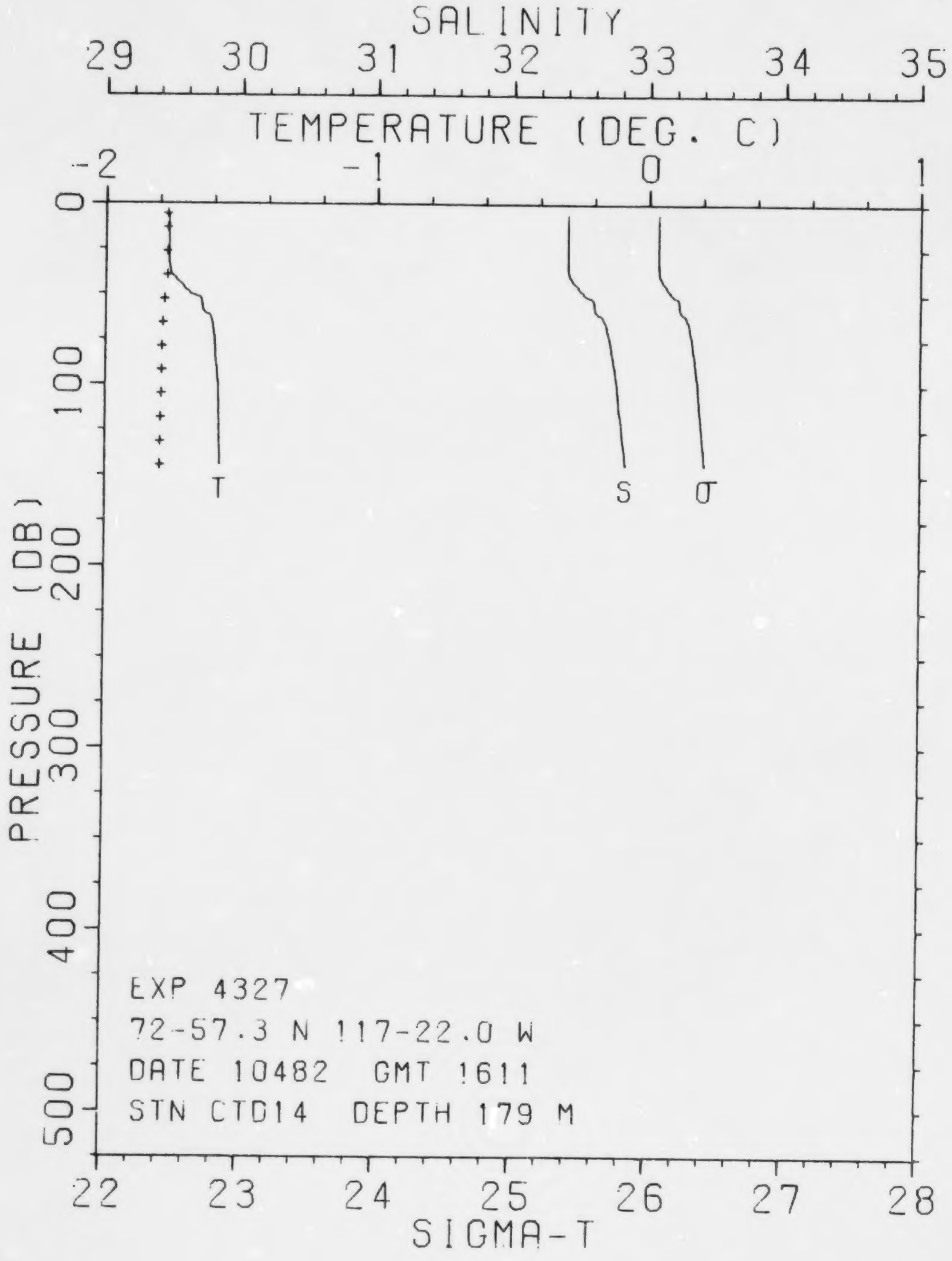

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
0
100
200
300
400
500
PRESSURE (DB)
T
S
σ
EXP 4326
73-52.7 N 116-15.0 W
DATE 310382 GMT 2138
STN CTD22 DEPTH 153 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD22 EXPERIMENT NO. 4326 DATE 310382 GMT 2138
LAT. 73-52.7 N LONG. 116-15.0 W
WATER DEPTH 153.4 M ICE THICKNESS 1.3 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.3	-1.781	32.466	26.120	.0101	1437.52
6.0	-1.780	32.467	26.121	.0114	1437.54
7.0	-1.775	32.491	26.140	.0132	1437.62
8.0	-1.777	32.492	26.142	.0151	1437.62
9.0	-1.776	32.496	26.144	.0170	1437.64
10.0	-1.773	32.501	26.148	.0188	1437.69
11.0	-1.770	32.503	26.150	.0207	1437.72
12.0	-1.769	32.508	26.154	.0225	1437.75
13.0	-1.761	32.507	26.154	.0244	1437.80
14.0	-1.763	32.517	26.162	.0262	1437.82
15.0	-1.765	32.521	26.165	.0281	1437.83
16.0	-1.768	32.524	26.167	.0299	1437.84
17.0	-1.764	32.530	26.172	.0317	1437.88
18.0	-1.766	32.537	26.176	.0336	1437.90
19.0	-1.779	32.545	26.185	.0354	1437.87
20.0	-1.780	32.546	26.186	.0372	1437.86
21.0	-1.781	32.547	26.186	.0390	1437.89
22.0	-1.779	32.546	26.185	.0408	1437.92
23.0	-1.780	32.547	26.186	.0427	1437.93
24.0	-1.779	32.546	26.185	.0445	1437.95
25.0	-1.779	32.546	26.185	.0463	1437.97
27.5	-1.779	32.551	26.189	.0508	1438.01
30.0	-1.776	32.557	26.194	.0554	1438.06
32.5	-1.769	32.559	26.195	.0599	1438.16
35.0	-1.772	32.565	26.201	.0644	1438.19
37.5	-1.764	32.566	26.201	.0689	1438.27
40.0	-1.763	32.564	26.200	.0734	1438.31
42.5	-1.760	32.566	26.201	.0779	1438.37
45.0	-1.754	32.566	26.201	.0824	1438.44
47.5	-1.751	32.567	26.202	.0869	1438.50
50.0	-1.684	32.593	26.222	.0914	1438.89
55.0	-1.643	32.644	26.261	.1003	1439.24
60.0	-1.638	32.675	26.287	.1089	1439.39
65.0	-1.628	32.722	26.325	.1174	1439.58
70.0	-1.607	32.769	26.363	.1258	1439.84
75.0	-1.588	32.816	26.401	.1339	1440.07
80.0	-1.557	32.904	26.471	.1418	1440.43
85.0	-1.535	32.970	26.524	.1494	1440.70
90.0	-1.518	33.021	26.565	.1567	1440.94
95.0	-1.503	33.077	26.610	.1639	1441.17
100.0	-1.491	33.124	26.648	.1709	1441.37
105.0	-1.477	33.182	26.694	.1776	1441.60
110.0	-1.470	33.220	26.725	.1842	1441.77

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.455	33.270	26.766	.1906	1441.99
120.0	-1.455	33.318	26.805	.1968	1442.14
125.0	-1.429	33.377	26.852	.2029	1442.43
128.0	-1.416	33.409	26.877	.2064	1442.58
129.0	-1.410	33.421	26.887	.2075	1442.65
130.0	-1.406	33.431	26.894	.2087	1442.70
131.0	-1.401	33.438	26.901	.2098	1442.75
132.0	-1.395	33.451	26.911	.2109	1442.81
133.0	-1.391	33.458	26.916	.2121	1442.86
134.0	-1.386	33.470	26.926	.2132	1442.91
135.0	-1.379	33.476	26.930	.2143	1442.97
136.0	-1.376	33.484	26.937	.2154	1443.01
137.0	-1.374	33.490	26.942	.2165	1443.05
138.0	-1.372	33.495	26.945	.2176	1443.08
139.0	-1.369	33.497	26.947	.2187	1443.11
140.0	-1.369	33.502	26.951	.2197	1443.14
141.0	-1.361	33.510	26.958	.2208	1443.20
142.0	-1.353	33.523	26.968	.2219	1443.27
143.0	-1.349	33.530	26.973	.2230	1443.32
144.0	-1.346	33.549	26.988	.2240	1443.38
145.0	-1.332	33.557	26.995	.2251	1443.47
146.0	-1.328	33.559	26.996	.2261	1443.51
147.0	-1.311	33.575	27.009	.2272	1443.63
148.0	-1.302	33.582	27.014	.2282	1443.69
149.0	-1.284	33.603	27.031	.2292	1443.83
150.0	-1.266	33.627	27.050	.2302	1443.96
150.5	-1.262	33.632	27.053	.2307	1443.99


SALINITY
30
31
32
33
34
35
EXP 4326 73-52.7 N 116-15.0 W
DATE 310382 GMT 2138
STN CTD22 DEPTH 153 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

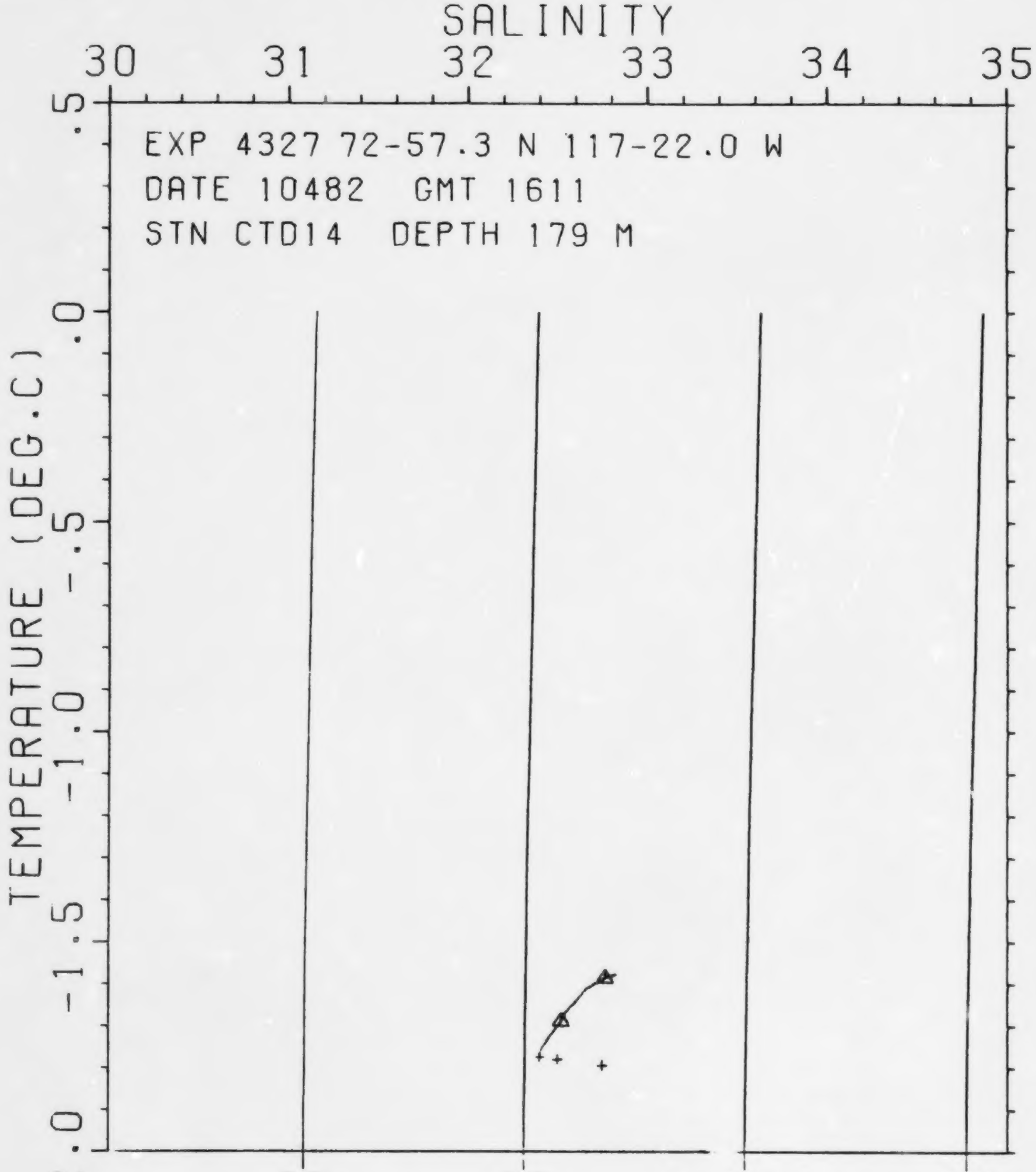


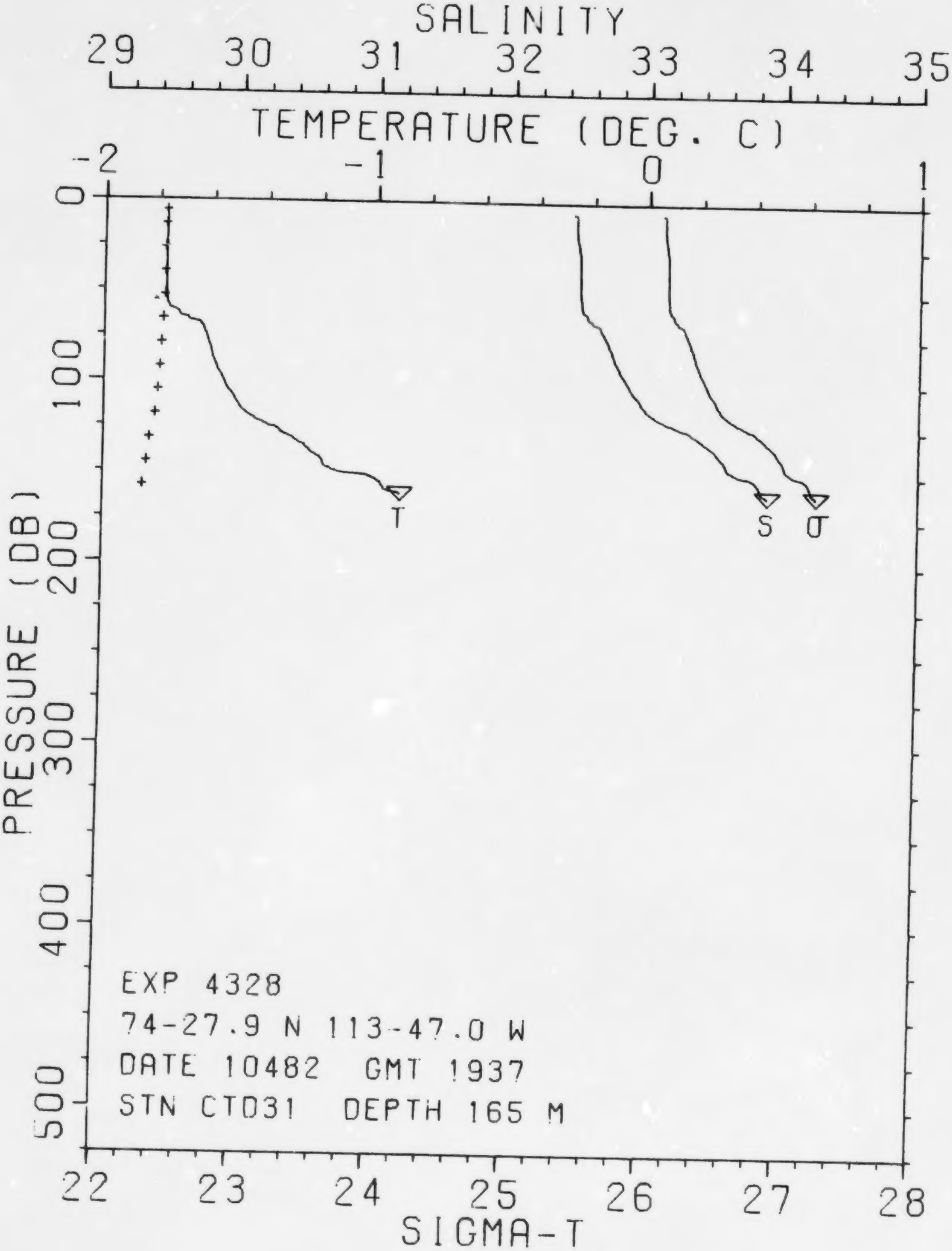
EXP 4327
72-57.3 N 117-22.0 W
DATE 10482 GMT 1611
STN CTD14 DEPTH 179 M

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD14 EXPERIMENT NO. 4327 DATE 010482 GMT 1611
LAT. 72-57.3 N LONG. 117-22.0 W
WATER DEPTH 179.0 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.769	32.400	26.067	.0107	1437.49
6.0	-1.769	32.400	26.066	.0116	1437.50
7.0	-1.769	32.400	26.066	.0135	1437.52
8.0	-1.769	32.400	26.066	.0155	1437.53
9.0	-1.768	32.398	26.065	.0174	1437.55
10.0	-1.767	32.398	26.065	.0193	1437.57
11.0	-1.769	32.400	26.067	.0213	1437.58
12.0	-1.767	32.398	26.065	.0232	1437.60
13.0	-1.769	32.400	26.066	.0251	1437.61
14.0	-1.768	32.399	26.065	.0271	1437.63
15.0	-1.768	32.399	26.066	.0290	1437.65
16.0	-1.769	32.400	26.066	.0309	1437.66
17.0	-1.768	32.399	26.065	.0328	1437.68
18.0	-1.768	32.398	26.065	.0348	1437.70
19.0	-1.769	32.401	26.067	.0367	1437.71
20.0	-1.768	32.399	26.066	.0386	1437.73
21.0	-1.769	32.400	26.067	.0406	1437.75
22.0	-1.768	32.399	26.066	.0425	1437.76
23.0	-1.769	32.401	26.067	.0444	1437.78
24.0	-1.767	32.398	26.065	.0464	1437.80
25.0	-1.768	32.400	26.066	.0483	1437.81
27.5	-1.767	32.399	26.066	.0531	1437.86
30.0	-1.768	32.400	26.067	.0580	1437.89
32.5	-1.767	32.399	26.066	.0628	1437.94
35.0	-1.765	32.402	26.068	.0676	1437.99
37.5	-1.762	32.404	26.070	.0724	1438.05
40.0	-1.756	32.410	26.074	.0773	1438.13
42.5	-1.740	32.434	26.093	.0820	1438.28
45.0	-1.719	32.467	26.120	.0868	1438.47
47.5	-1.708	32.487	26.136	.0914	1438.59
50.0	-1.689	32.521	26.163	.0961	1438.77
55.0	-1.645	32.595	26.222	.1051	1439.16
60.0	-1.636	32.609	26.233	.1139	1439.31
65.0	-1.609	32.672	26.284	.1226	1439.61
70.0	-1.604	32.691	26.299	.1312	1439.74
75.0	-1.598	32.709	26.314	.1397	1439.88
80.0	-1.596	32.723	26.325	.1481	1439.99
85.0	-1.595	32.733	26.333	.1565	1440.08
90.0	-1.592	32.745	26.342	.1649	1440.20
95.0	-1.588	32.754	26.350	.1732	1440.31
100.0	-1.585	32.766	26.360	.1815	1440.42
105.0	-1.584	32.768	26.361	.1897	1440.52
110.0	-1.583	32.777	26.368	.1979	1440.61

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.582	32.782	26.373	.2061	1440.71
120.0	-1.582	32.792	26.380	.2142	1440.80
125.0	-1.581	32.799	26.387	.2224	1440.90
130.0	-1.580	32.806	26.392	.2304	1441.00
135.0	-1.578	32.813	26.398	.2385	1441.10
140.0	-1.578	32.823	26.406	.2465	1441.19
144.7	-1.577	32.828	26.410	.2540	1441.28

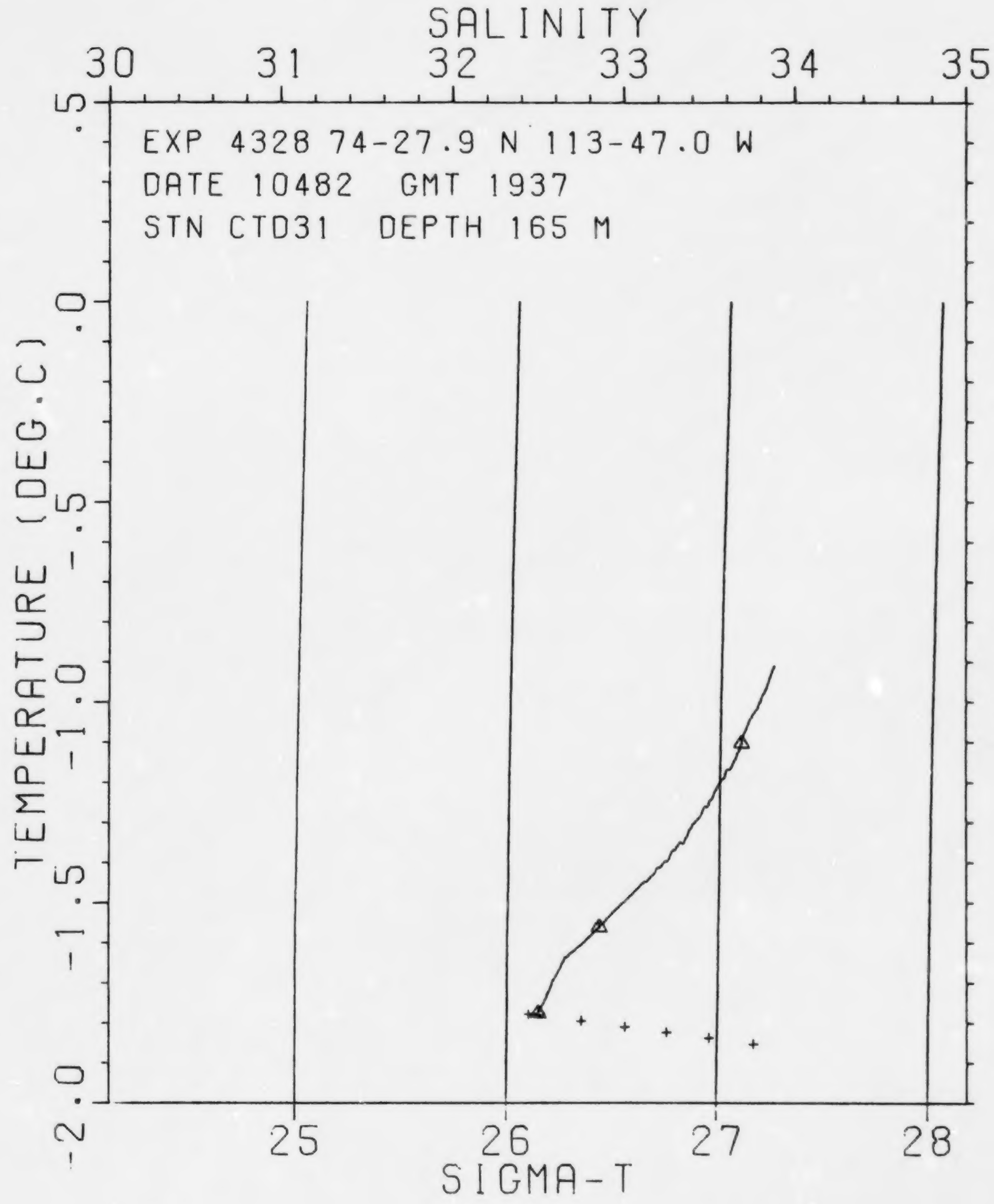

SALINITY
30
31
32
33
34
35
EXP 4327 72-57.3 N 117-22.0 W
DATE 10482 GMT 1611
STN CTD14 DEPTH 179 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

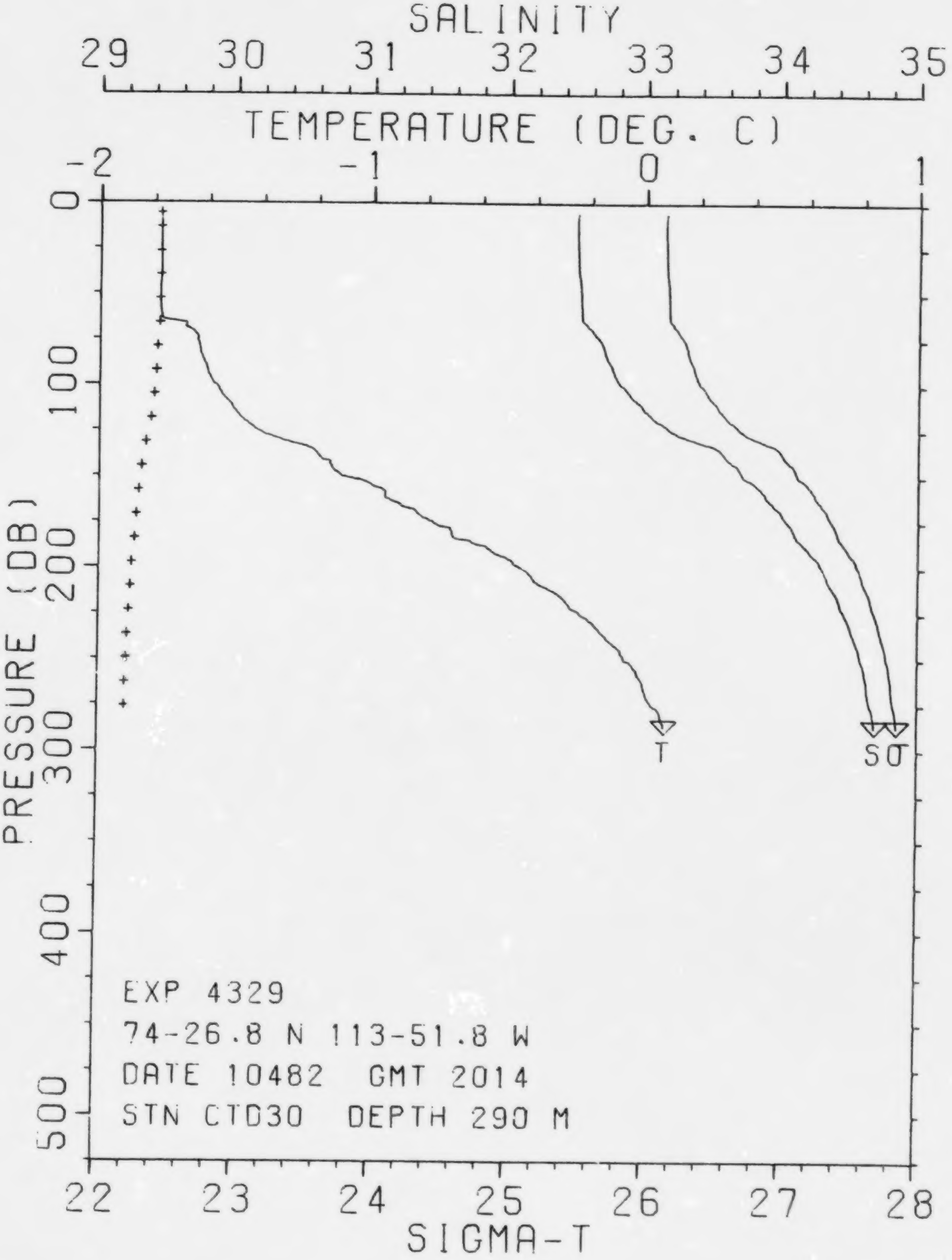

SALINITY
29 30 31 32 33 34 35
TEMPERATURE (DEG. C)
-2 -1 0 1
PRESSURE (DB)
0 100 200 300 400 500
T
S
σ
EXP 4328
74-27.9 N 113-47.0 W
DATE 10482 GMT 1937
STN CTD31 DEPTH 165 M
22 23 24 25 26 27 28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD31 EXPERIMENT NO. 4328 DATE 010482 GMT 1937
LAT. 74-27.9 N LONG. 113-47.0 W
WATER DEPTH 165.0 M ICE THICKNESS 1.5 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.6	-1.775	32.444	26.102	.0110	1437.52
6.0	-1.775	32.464	26.118	.0117	1437.56
7.0	-1.776	32.468	26.121	.0136	1437.58
8.0	-1.775	32.467	26.121	.0154	1437.60
9.0	-1.774	32.466	26.120	.0173	1437.62
10.0	-1.775	32.466	26.120	.0192	1437.63
11.0	-1.776	32.466	26.120	.0211	1437.64
12.0	-1.775	32.466	26.120	.0230	1437.66
13.0	-1.775	32.466	26.120	.0249	1437.68
14.0	-1.775	32.466	26.120	.0267	1437.69
15.0	-1.775	32.466	26.120	.0286	1437.71
16.0	-1.775	32.467	26.121	.0305	1437.73
17.0	-1.776	32.470	26.123	.0324	1437.74
18.0	-1.774	32.469	26.123	.0343	1437.77
19.0	-1.774	32.470	26.124	.0361	1437.79
20.0	-1.774	32.473	26.126	.0380	1437.80
21.0	-1.775	32.475	26.128	.0399	1437.82
22.0	-1.775	32.481	26.132	.0418	1437.85
23.0	-1.777	32.486	26.136	.0436	1437.86
24.0	-1.775	32.485	26.135	.0455	1437.88
25.0	-1.777	32.490	26.140	.0473	1437.90
27.5	-1.776	32.494	26.143	.0520	1437.95
30.0	-1.775	32.497	26.146	.0566	1438.00
32.5	-1.775	32.498	26.147	.0613	1438.04
35.0	-1.776	32.499	26.147	.0659	1438.08
37.5	-1.775	32.499	26.147	.0705	1438.12
40.0	-1.776	32.500	26.148	.0752	1438.16
42.5	-1.776	32.501	26.149	.0798	1438.20
45.0	-1.776	32.502	26.149	.0844	1438.24
47.5	-1.775	32.501	26.148	.0891	1438.29
50.0	-1.774	32.502	26.149	.0937	1438.34
55.0	-1.771	32.509	26.155	.1029	1438.44
60.0	-1.762	32.522	26.165	.1122	1438.59
65.0	-1.705	32.577	26.208	.1212	1439.02
70.0	-1.641	32.654	26.270	.1300	1439.51
75.0	-1.625	32.690	26.299	.1386	1439.72
80.0	-1.615	32.719	26.322	.1471	1439.89
85.0	-1.606	32.748	26.346	.1554	1440.06
90.0	-1.595	32.779	26.371	.1637	1440.23
95.0	-1.580	32.814	26.398	.1716	1440.43
100.0	-1.560	32.859	26.434	.1798	1440.67
105.0	-1.544	32.893	26.462	.1876	1440.88
110.0	-1.519	32.949	26.506	.1953	1441.16

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.499	32.997	26.545	.2027	1441.40
120.0	-1.452	33.106	26.632	.2099	1441.86
125.0	-1.395	33.259	26.755	.2165	1442.42
130.0	-1.323	33.383	26.853	.2226	1443.02
135.0	-1.259	33.479	26.929	.2283	1443.54
140.0	-1.222	33.537	26.975	.2338	1443.88
141.0	-1.212	33.551	26.986	.2348	1443.96
142.0	-1.202	33.566	26.998	.2359	1444.04
143.0	-1.200	33.571	27.002	.2369	1444.08
144.0	-1.193	33.578	27.008	.2379	1444.14
145.0	-1.192	33.583	27.012	.2390	1444.16
146.0	-1.193	33.587	27.014	.2400	1444.18
147.0	-1.183	33.600	27.025	.2410	1444.26
148.0	-1.166	33.628	27.047	.2420	1444.40
149.0	-1.145	33.653	27.067	.2430	1444.55
150.0	-1.119	33.683	27.090	.2440	1444.73
151.0	-1.033	33.759	27.149	.2449	1445.25
152.0	-1.019	33.778	27.163	.2458	1445.36
153.0	-1.000	33.798	27.180	.2467	1445.50
154.0	-.993	33.810	27.189	.2475	1445.56
155.0	-.980	33.821	27.197	.2484	1445.66
156.0	-.977	33.826	27.201	.2493	1445.69
157.0	-.975	33.829	27.204	.2501	1445.72
158.0	-.969	33.834	27.208	.2509	1445.77
159.0	-.966	33.837	27.210	.2518	1445.81
160.0	-.949	33.852	27.221	.2526	1445.93
161.0	-.910	33.885	27.246	.2534	1446.17
161.6	-.910	33.888	27.249	.2539	1446.18

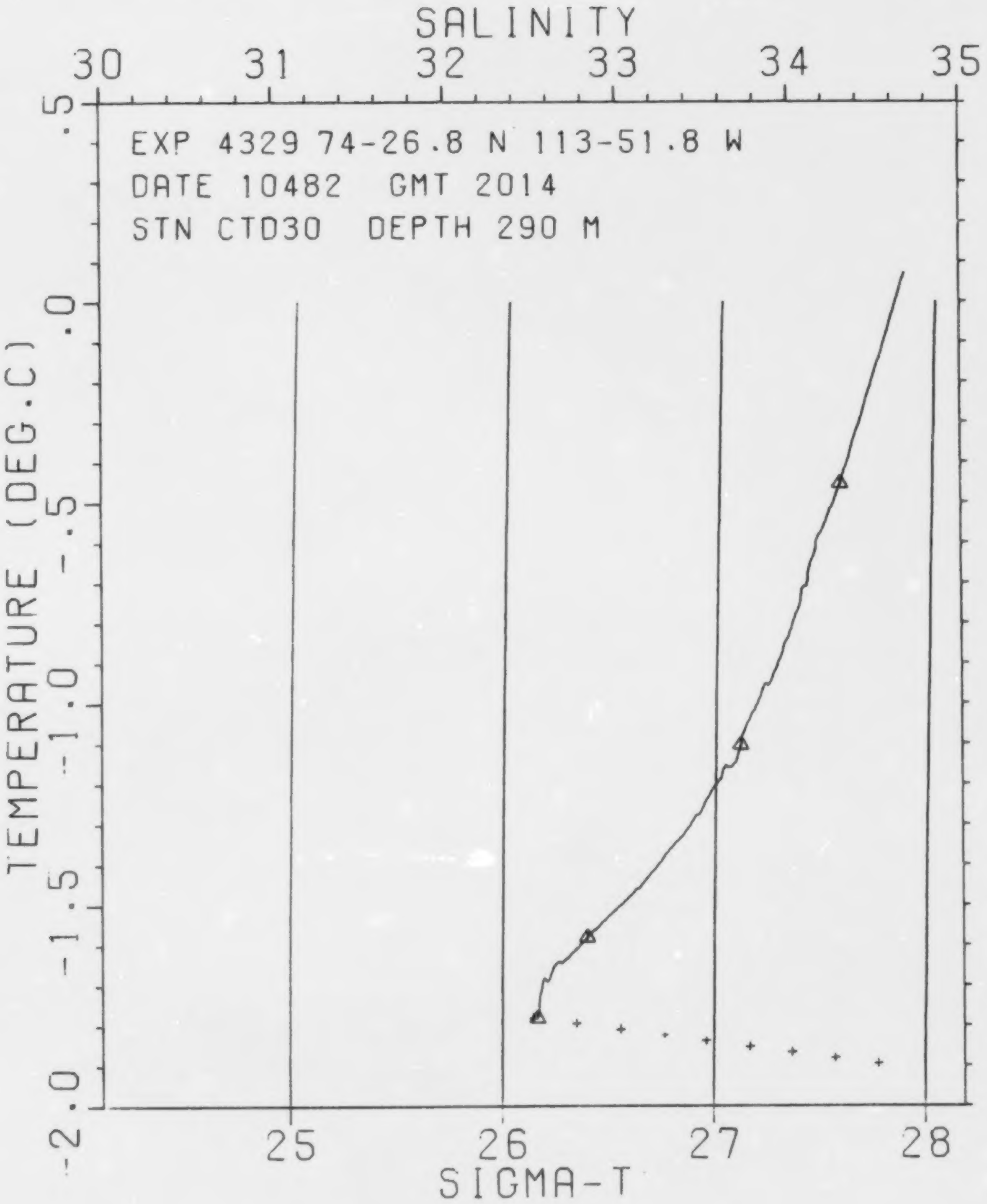

SALINITY
30
31
32
33
34
35
EXP 4328 74-27.9 N 113-47.0 W
DATE 10482 GMT 1937
STN CTD31 DEPTH 165 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

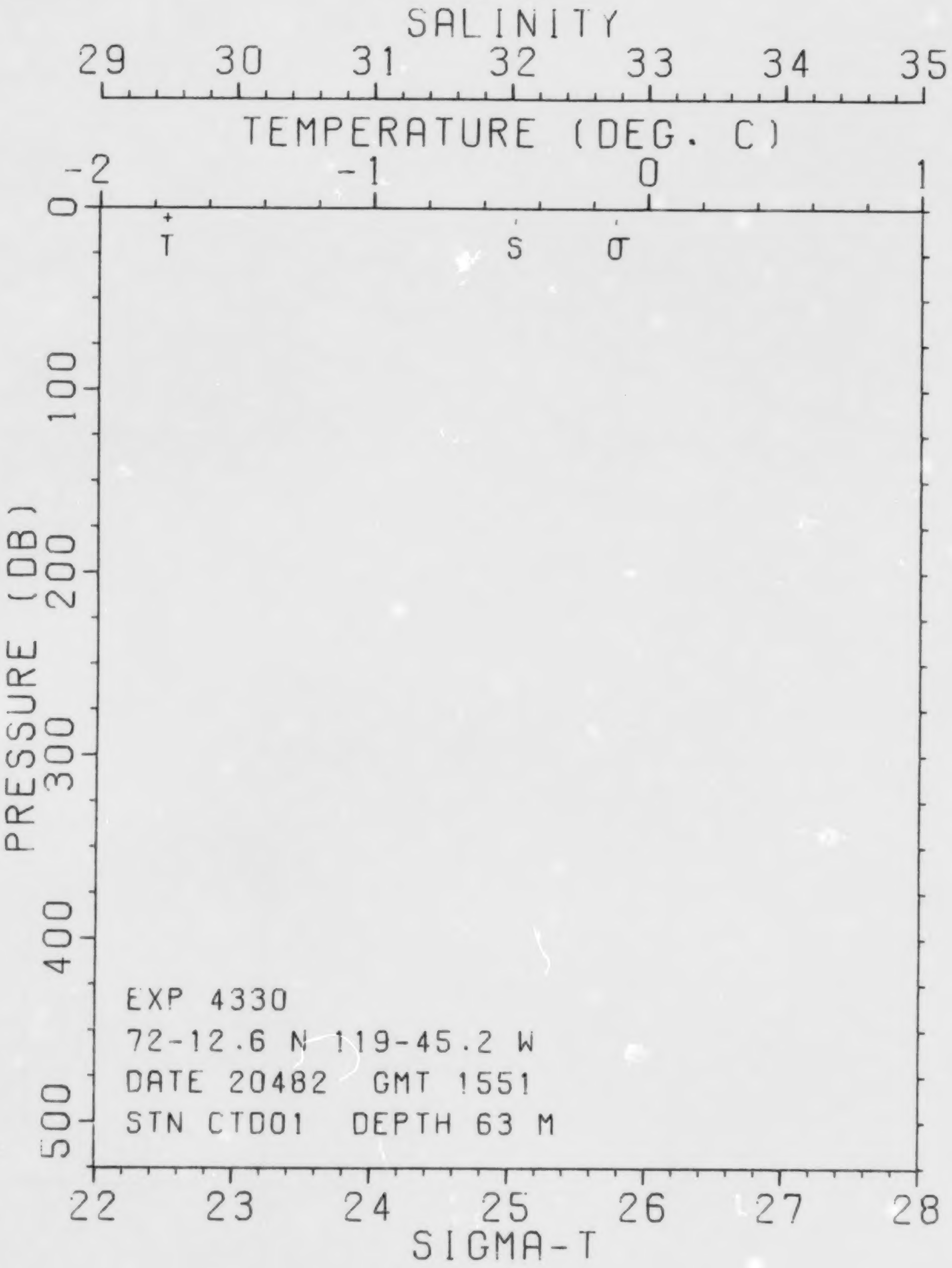

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4329
74-26.8 N 113-51.8 W
DATE 10482 GMT 2014
STN CTD30 DEPTH 290 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD30 EXPERIMENT NO. 4329 DATE 010482 GMT 2014
LAT. 74-26.6 N LONG. 113-51.8 W
WATER DEPTH 290.4 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.780	32.496	26.145	.0102	1437.58
6.0	-1.781	32.498	26.146	.0111	1437.58
7.0	-1.778	32.494	26.143	.0130	1437.60
8.0	-1.780	32.495	26.144	.0149	1437.61
9.0	-1.778	32.491	26.141	.0167	1437.63
10.0	-1.778	32.491	26.141	.0186	1437.65
11.0	-1.778	32.490	26.140	.0205	1437.67
12.0	-1.779	32.492	26.142	.0223	1437.68
13.0	-1.779	32.492	26.141	.0242	1437.69
14.0	-1.778	32.491	26.141	.0260	1437.71
15.0	-1.778	32.492	26.141	.0279	1437.73
16.0	-1.778	32.492	26.141	.0298	1437.75
17.0	-1.777	32.491	26.140	.0316	1437.77
18.0	-1.779	32.493	26.142	.0335	1437.78
19.0	-1.778	32.492	26.141	.0353	1437.80
20.0	-1.777	32.494	26.143	.0372	1437.82
21.0	-1.778	32.495	26.143	.0391	1437.84
22.0	-1.778	32.495	26.144	.0409	1437.85
23.0	-1.780	32.498	26.146	.0428	1437.86
24.0	-1.778	32.497	26.145	.0446	1437.88
25.0	-1.778	32.497	26.146	.0465	1437.90
27.5	-1.778	32.499	26.147	.0511	1437.95
30.0	-1.777	32.499	26.147	.0558	1437.99
32.5	-1.777	32.500	26.148	.0604	1438.03
35.0	-1.778	32.501	26.149	.0650	1438.07
37.5	-1.778	32.503	26.150	.0697	1438.12
40.0	-1.776	32.506	26.153	.0743	1438.17
42.5	-1.780	32.514	26.159	.0789	1438.20
45.0	-1.781	32.518	26.163	.0835	1438.25
47.5	-1.779	32.518	26.162	.0881	1438.29
50.0	-1.781	32.523	26.166	.0927	1438.34
55.0	-1.781	32.524	26.167	.1019	1438.42
60.0	-1.778	32.526	26.169	.1110	1438.52
65.0	-1.746	32.535	26.175	.1202	1438.76
70.0	-1.670	32.608	26.233	.1291	1439.31
75.0	-1.640	32.660	26.275	.1379	1439.61
80.0	-1.634	32.693	26.302	.1465	1439.76
85.0	-1.626	32.713	26.318	.1549	1439.91
90.0	-1.609	32.752	26.349	.1633	1440.13
95.0	-1.601	32.773	26.366	.1716	1440.28
100.0	-1.580	32.814	26.399	.1797	1440.52
105.0	-1.554	32.882	26.453	.1876	1440.82
110.0	-1.523	32.954	26.511	.1953	1441.15

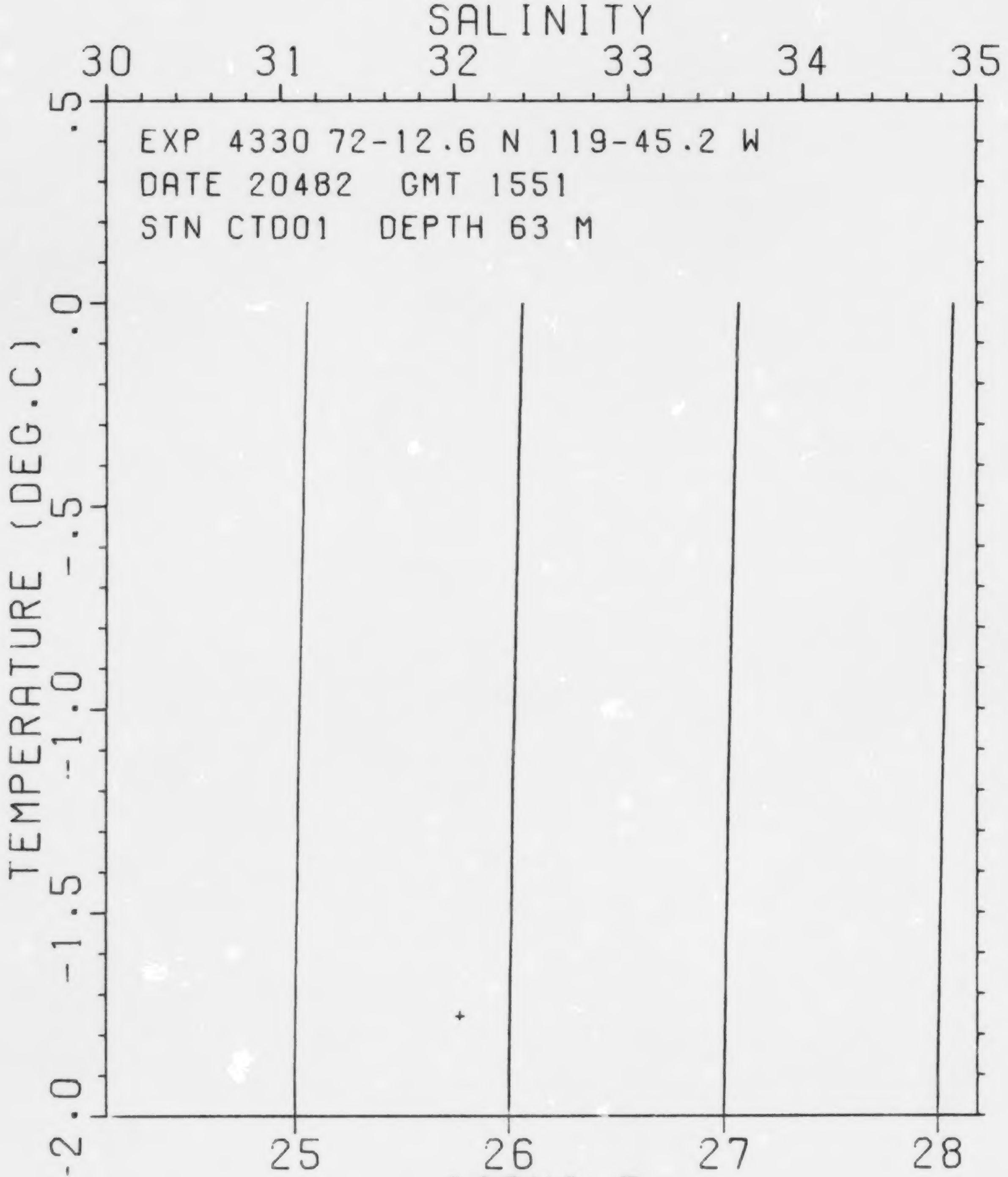
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.499	33.014	26.559	.2027	1441.43
120.0	-1.469	33.086	26.616	.2099	1441.75
125.0	-1.422	33.187	26.698	.2167	1442.20
130.0	-1.333	33.363	26.838	.2230	1442.95
135.0	-1.221	33.536	26.974	.2286	1443.80
140.0	-1.187	33.593	27.019	.2338	1444.12
145.0	-1.150	33.675	27.084	.2388	1444.49
150.0	-1.113	33.710	27.112	.2435	1444.79
155.0	-1.001	33.817	27.194	.2480	1445.55
160.0	-.955	33.881	27.245	.2521	1445.94
165.0	-.902	33.937	27.288	.2561	1446.35
170.0	-.836	33.994	27.332	.2599	1446.81
175.0	-.775	34.043	27.369	.2634	1447.25
180.0	-.709	34.086	27.401	.2668	1447.70
185.0	-.643	34.131	27.435	.2700	1448.15
190.0	-.572	34.194	27.482	.2731	1448.65
195.0	-.503	34.259	27.532	.2759	1449.14
200.0	-.454	34.299	27.562	.2785	1449.50
210.0	-.373	34.362	27.609	.2834	1450.13
220.0	-.281	34.431	27.661	.2878	1450.81
230.0	-.190	34.497	27.710	.2917	1451.48
240.0	-.126	34.543	27.744	.2953	1452.01
250.0	-.073	34.583	27.774	.2985	1452.47
260.0	-.017	34.621	27.801	.3015	1452.94
265.0	-.002	34.632	27.809	.3029	1453.11
266.0	.001	34.632	27.810	.3032	1453.14
267.0	.000	34.634	27.811	.3035	1453.15
268.0	.003	34.635	27.811	.3038	1453.18
269.0	.006	34.640	27.815	.3040	1453.22
270.0	.008	34.638	27.814	.3043	1453.24
271.0	.010	34.641	27.816	.3046	1453.27
272.0	.015	34.643	27.818	.3049	1453.31
273.0	.016	34.646	27.820	.3051	1453.34
274.0	.024	34.650	27.822	.3054	1453.40
275.0	.027	34.652	27.824	.3057	1453.43
276.0	.035	34.656	27.827	.3059	1453.49
277.0	.050	34.668	27.836	.3062	1453.59
278.0	.053	34.671	27.838	.3064	1453.62
279.0	.059	34.674	27.840	.3067	1453.67
280.0	.061	34.677	27.842	.3069	1453.70
281.0	.062	34.677	27.842	.3072	1453.72
282.0	.063	34.680	27.844	.3074	1453.75
283.0	.065	34.681	27.845	.3077	1453.78
284.0	.063	34.683	27.847	.3079	1453.79
285.0	.073	34.686	27.849	.3082	1453.85
286.0	.073	34.687	27.850	.3084	1453.87
287.0	.073	34.686	27.849	.3087	1453.89
287.4	.073	34.686	27.849	.3088	1453.89

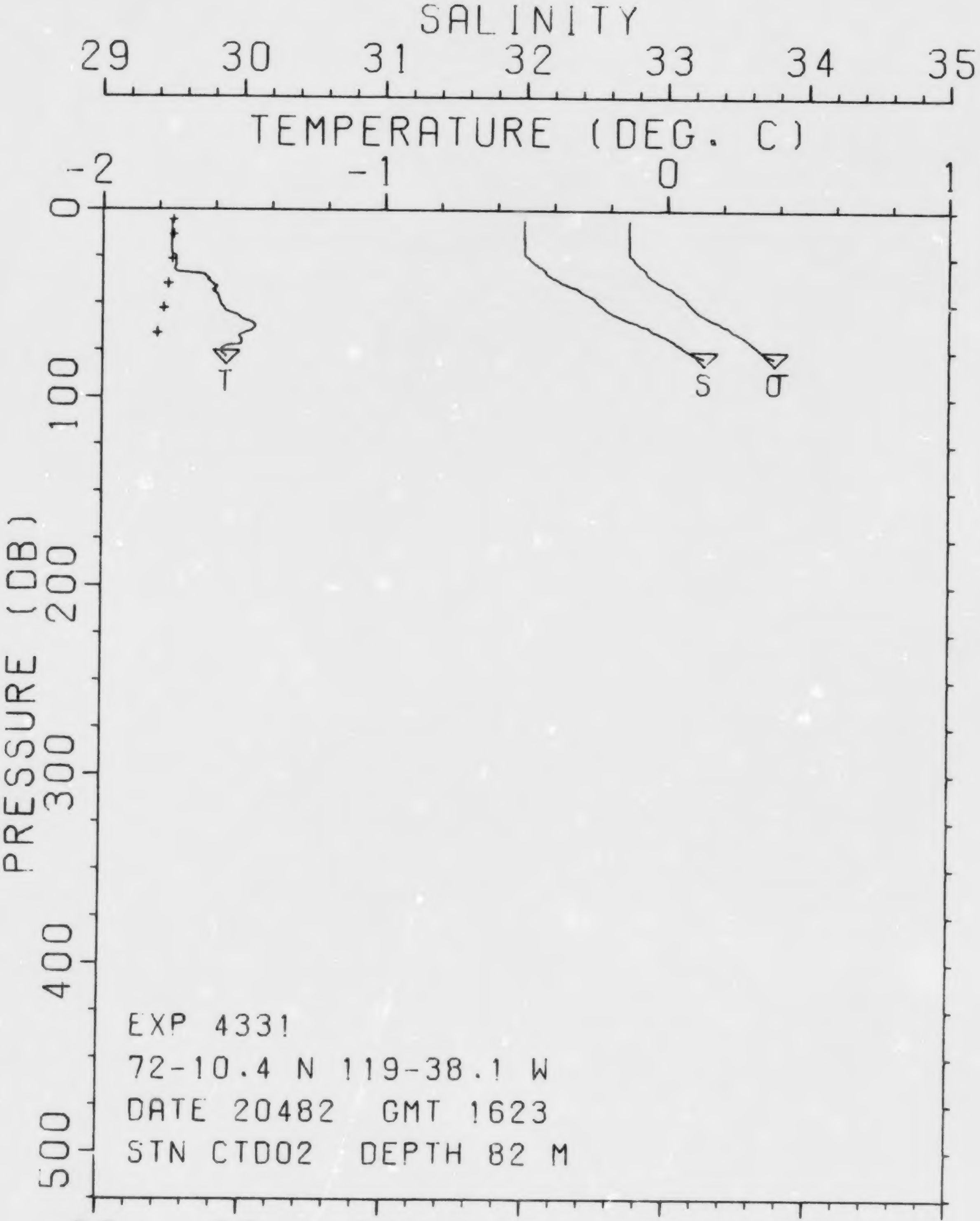

SALINITY
30
31
32
33
34
35
EXP 4329 74-26.8 N 113-51.8 W
DATE 10482 GMT 2014
STN CTD30 DEPTH 290 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
T
S
σ
PRESSURE (DB)
0
100
200
300
400
500
EXP 4330
72-12.6 N 119-45.2 W
DATE 20482 GMT 1551
STN CTD01 DEPTH 63 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD01 EXPERIMENT NO. 4330 DATE 020482 GMT 1551
LAT. 72-12.6 N LONG. 119-45.2 W
WATER DEPTH 63.0 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.755	32.032	25.767	.0121	1437.04
6.0	-1.754	32.031	25.766	.0133	1437.05
7.0	-1.753	32.029	25.764	.0155	1437.07
8.0	-1.753	32.028	25.764	.0177	1437.08
8.0	-1.753	32.028	25.764	.0178	1437.08

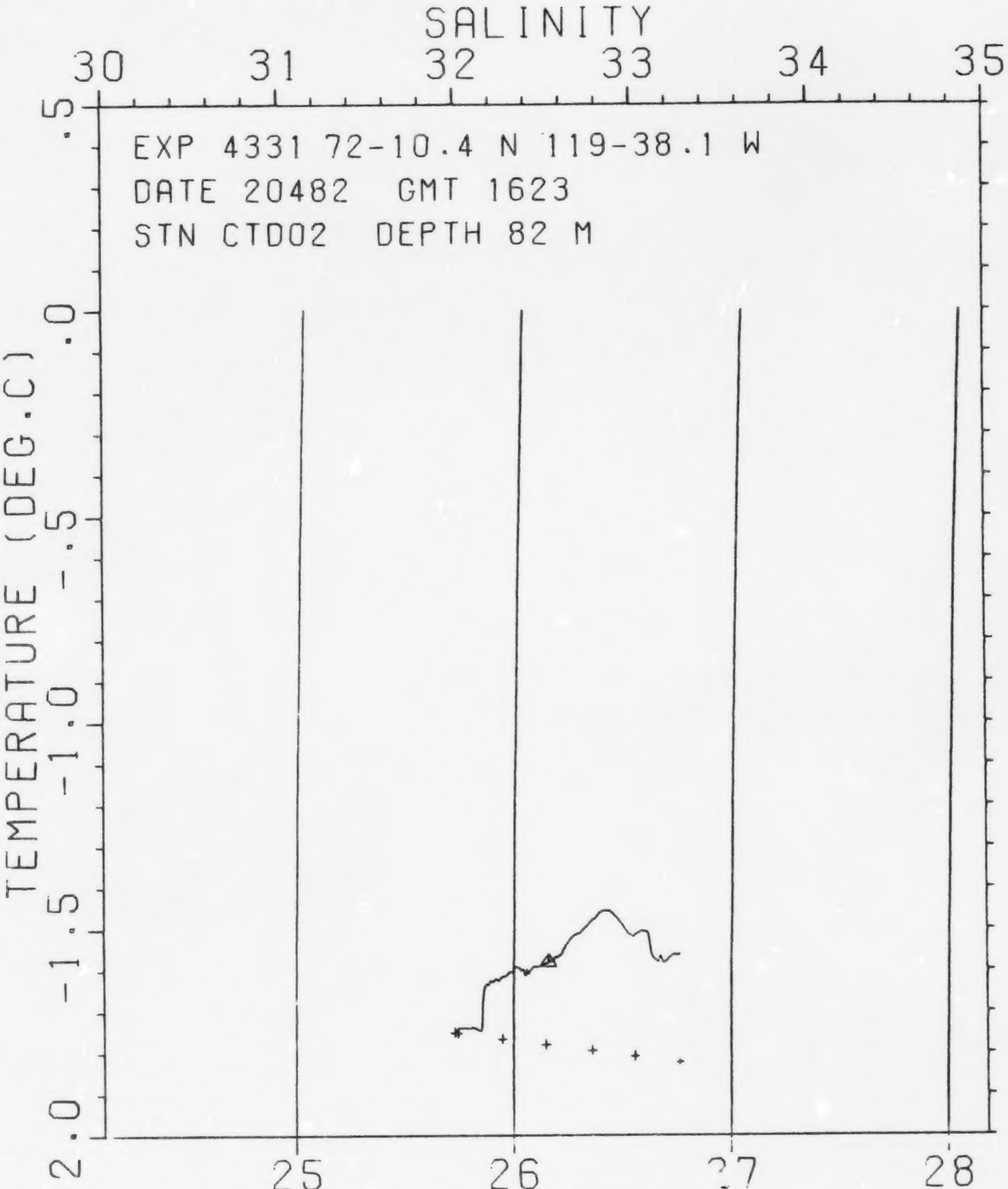

SALINITY
30
31
32
33
34
35
.5
.0
-.5
-1.0
-1.5
-2.0
TEMPERATURE (DEG.C)
EXP 4330 72-12.6 N 119-45.2 W
DATE 20482 GMT 1551
STN CTD01 DEPTH 63 M
25
26
27
28
SIGMA-T

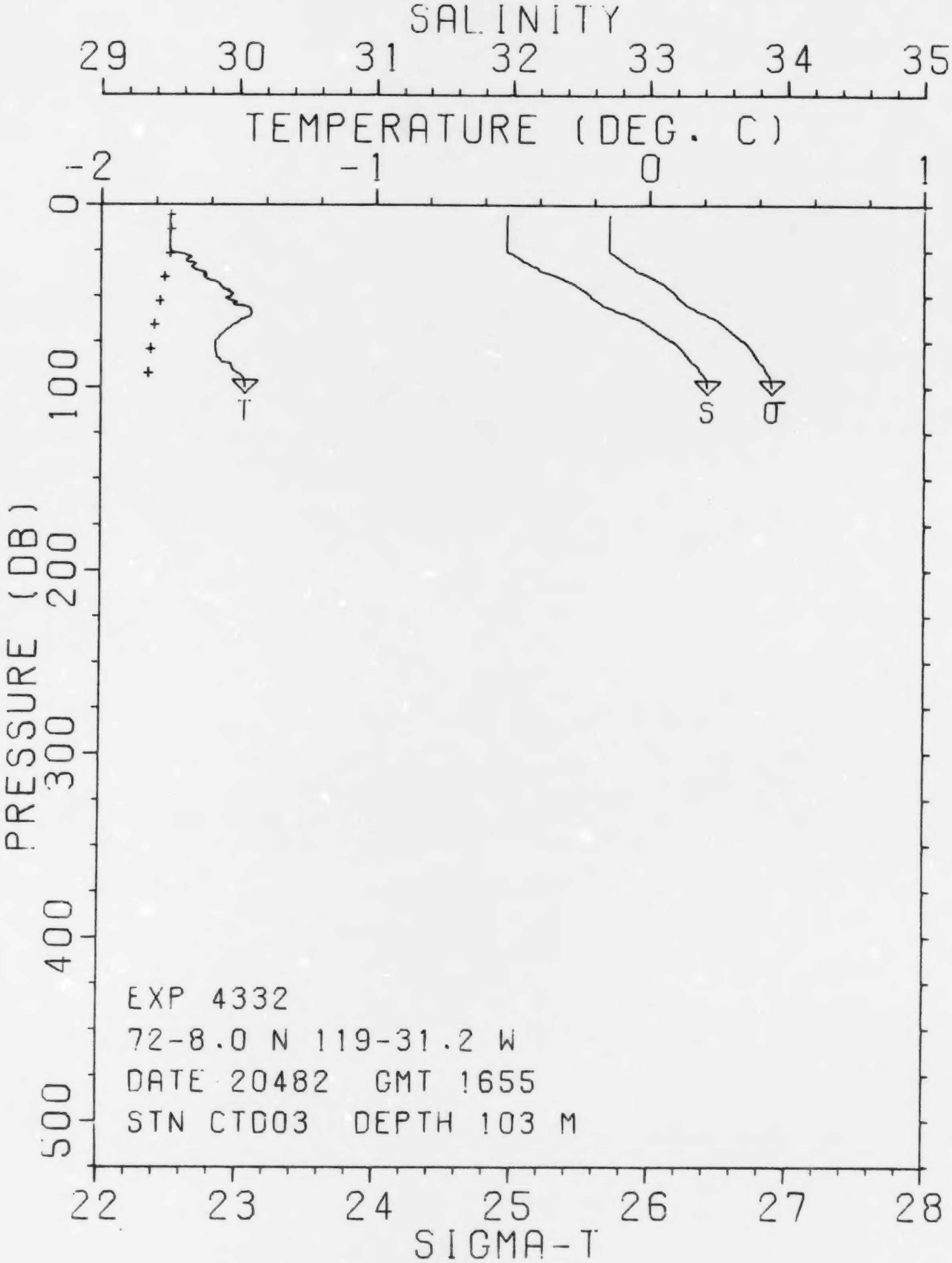

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4331
72-10.4 N 119-38.1 W
DATE 20482 GMT 1623
STN CTD02 DEPTH 82 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD02 EXPERIMENT NO. 4331 DATE 020482 GMT 1623
LAT. 72-10.4 N LONG. 119-38.1 W
WATER DEPTH 82.3 M ICE THICKNESS 2.1 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.756	31.986	25.730	.0121	1436.97
6.0	-1.756	31.986	25.730	.0135	1436.98
7.0	-1.755	31.986	25.730	.0158	1437.00
8.0	-1.754	31.985	25.729	.0180	1437.02
9.0	-1.755	31.985	25.729	.0203	1437.03
10.0	-1.754	31.984	25.728	.0225	1437.05
11.0	-1.756	31.985	25.729	.0248	1437.06
12.0	-1.756	31.986	25.730	.0270	1437.07
13.0	-1.757	31.988	25.731	.0293	1437.09
14.0	-1.755	31.986	25.729	.0315	1437.11
15.0	-1.755	31.986	25.729	.0338	1437.13
16.0	-1.756	31.988	25.731	.0360	1437.14
17.0	-1.756	31.989	25.732	.0383	1437.16
18.0	-1.756	31.989	25.732	.0405	1437.18
19.0	-1.756	31.989	25.732	.0428	1437.20
20.0	-1.756	31.990	25.733	.0450	1437.21
21.0	-1.755	31.988	25.732	.0473	1437.23
22.0	-1.757	31.990	25.733	.0495	1437.24
23.0	-1.755	31.990	25.733	.0518	1437.27
24.0	-1.754	31.992	25.734	.0540	1437.29
25.0	-1.738	32.009	25.748	.0563	1437.40
27.5	-1.738	32.045	25.777	.0618	1437.50
30.0	-1.737	32.069	25.813	.0673	1437.60
32.5	-1.744	32.140	25.854	.0727	1437.69
35.0	-1.633	32.167	25.874	.0780	1438.29
37.5	-1.621	32.232	25.927	.0832	1438.48
40.0	-1.605	32.296	25.979	.0883	1438.69
42.5	-1.600	32.382	26.048	.0933	1438.87
45.0	-1.594	32.428	26.086	.0981	1439.01
47.5	-1.585	32.491	26.136	.1026	1439.18
50.0	-1.580	32.521	26.160	.1074	1439.28
55.0	-1.543	32.615	26.236	.1165	1439.67
57.0	-1.513	32.679	26.287	.1200	1439.94
58.0	-1.508	32.706	26.309	.1217	1440.02
59.0	-1.491	32.739	26.336	.1234	1440.16
60.0	-1.467	32.795	26.380	.1250	1440.37
61.0	-1.461	32.807	26.390	.1266	1440.43
62.0	-1.456	32.862	26.434	.1282	1440.55
63.0	-1.460	32.877	26.446	.1298	1440.57
64.0	-1.467	32.892	26.459	.1314	1440.57
65.0	-1.480	32.919	26.481	.1329	1440.57
66.0	-1.499	32.953	26.509	.1344	1440.54
67.0	-1.516	32.987	26.537	.1359	1440.52

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
68.0	-1.516	33.009	26.555	.1374	1440.57
69.0	-1.509	33.031	26.573	.1389	1440.65
70.0	-1.506	33.056	26.593	.1403	1440.72
71.0	-1.506	33.072	26.606	.1417	1440.75
72.0	-1.524	33.093	26.624	.1431	1440.72
73.0	-1.567	33.109	26.637	.1445	1440.55
74.0	-1.577	33.128	26.654	.1459	1440.55
75.0	-1.581	33.146	26.668	.1473	1440.57
76.0	-1.582	33.174	26.691	.1486	1440.62
77.0	-1.574	33.197	26.709	.1500	1440.71
78.0	-1.562	33.242	26.745	.1513	1440.85
78.7	-1.561	33.246	26.749	.1522	1440.87

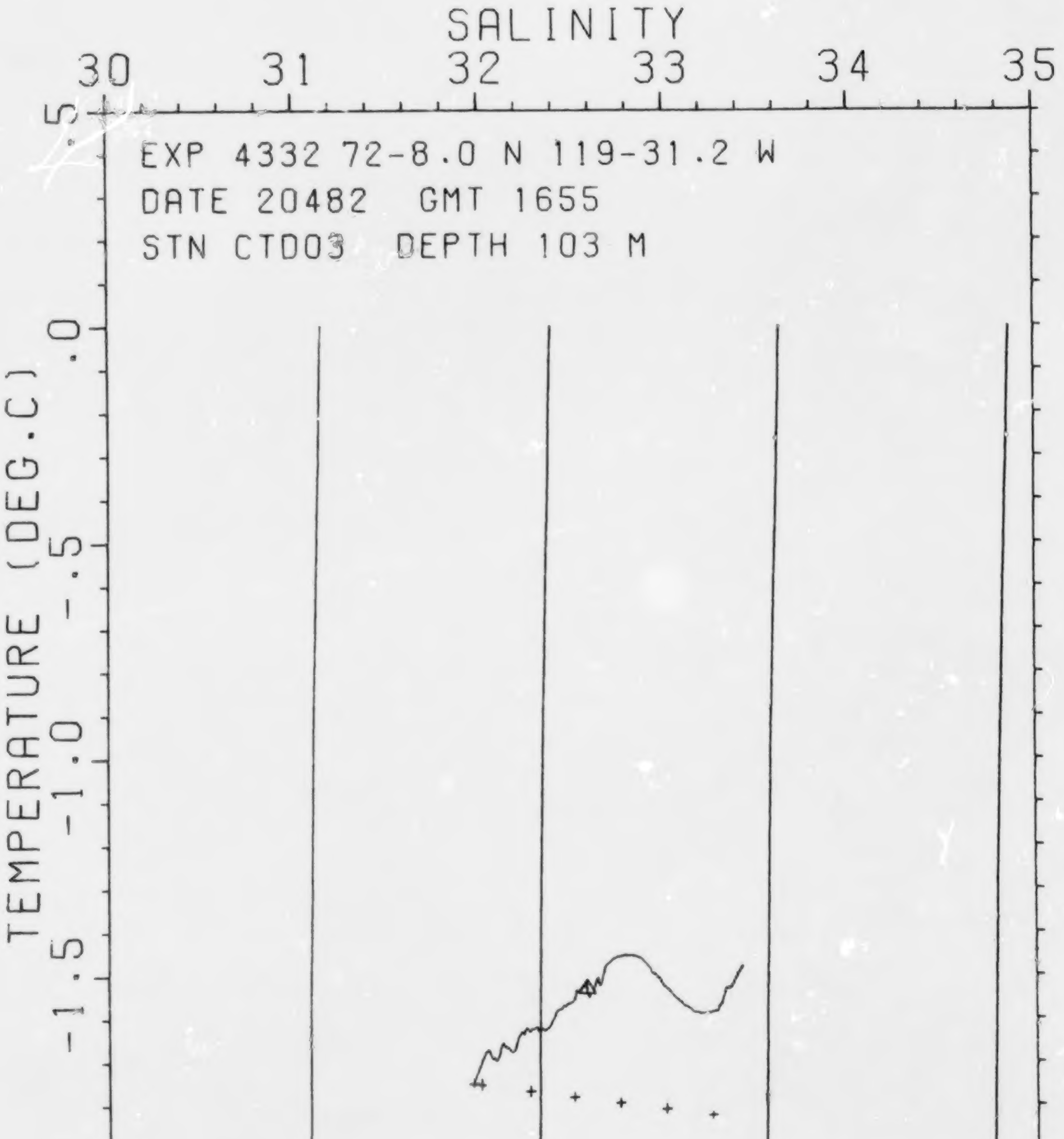

SALINITY
30
31
32
33
34
35
EXP 4331 72-10.4 N 119-38.1 W
DATE 20482 GMT 1623
STN CTD02 DEPTH 82 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

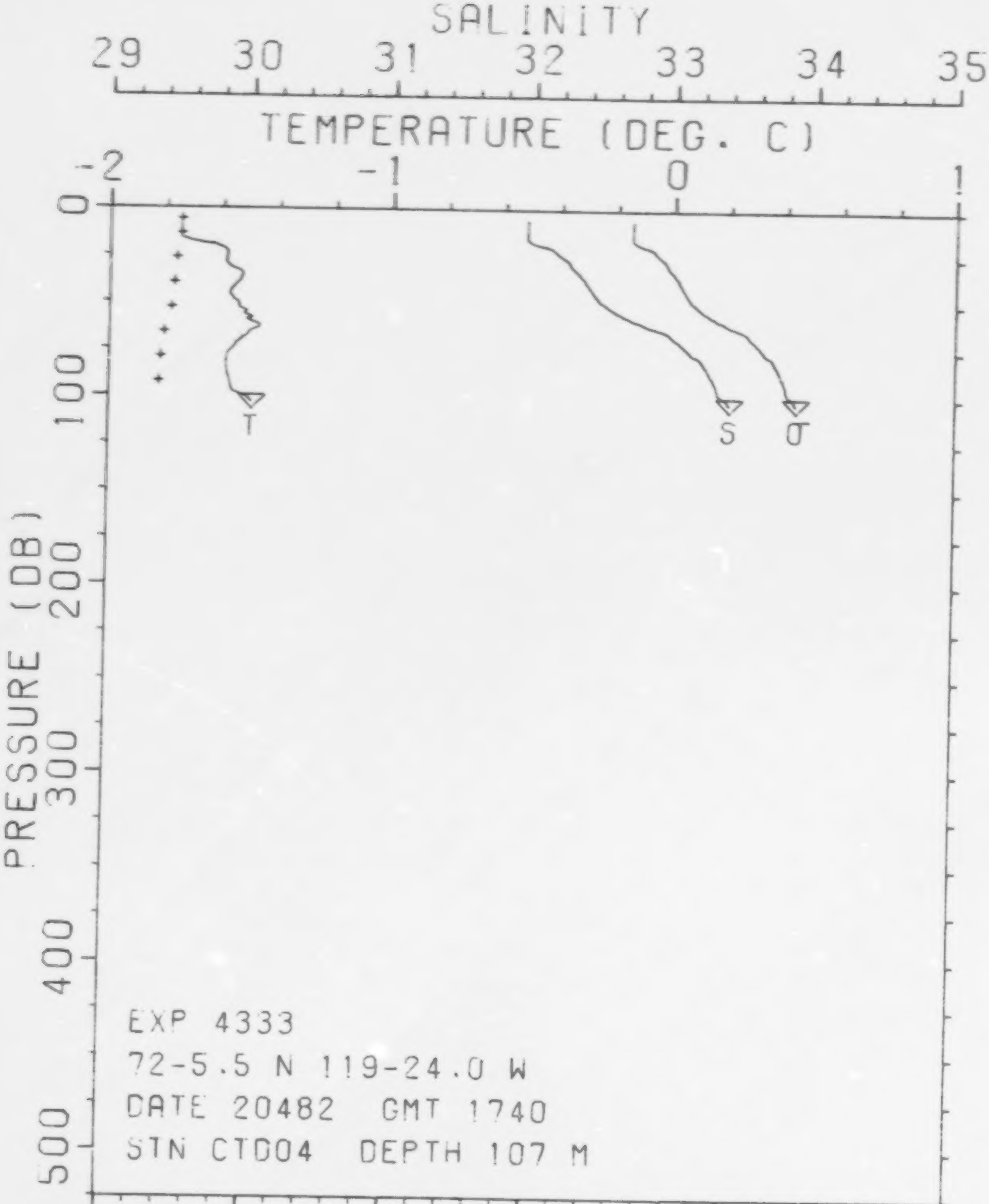

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4332
72-8.0 N 119-31.2 W
DATE 20482 GMT 1655
STN CTD03 DEPTH 103 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CT003 EXPERIMENT NO. 4332 DATE 020482 GMT 1655
LAT. 72-08.0 N LONG. 119-31.2 W
WATER DEPTH 103.4 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.3	-1.753	31.962	25.710	.0121	1436.95
6.0	-1.751	31.960	25.709	.0136	1436.96
7.0	-1.752	31.960	25.709	.0159	1436.98
8.0	-1.752	31.959	25.708	.0182	1436.99
9.0	-1.752	31.958	25.707	.0204	1437.01
10.0	-1.751	31.957	25.706	.0227	1437.03
11.0	-1.752	31.958	25.707	.0250	1437.04
12.0	-1.753	31.959	25.707	.0273	1437.05
13.0	-1.752	31.959	25.707	.0295	1437.07
14.0	-1.752	31.959	25.707	.0318	1437.09
15.0	-1.752	31.959	25.708	.0341	1437.11
16.0	-1.752	31.960	25.708	.0363	1437.12
17.0	-1.752	31.959	25.707	.0386	1437.14
18.0	-1.752	31.958	25.707	.0409	1437.16
19.0	-1.753	31.959	25.708	.0432	1437.17
20.0	-1.751	31.958	25.707	.0454	1437.19
21.0	-1.752	31.959	25.708	.0477	1437.20
22.0	-1.752	31.959	25.708	.0500	1437.22
23.0	-1.752	31.959	25.707	.0523	1437.24
24.0	-1.752	31.959	25.708	.0545	1437.25
25.0	-1.751	31.959	25.707	.0566	1437.28
27.5	-1.693	32.013	25.750	.0624	1437.67
30.0	-1.693	32.066	25.793	.0680	1437.78
32.5	-1.656	32.125	25.841	.0734	1438.08
35.0	-1.666	32.194	25.897	.0787	1438.17
37.5	-1.629	32.266	25.955	.0839	1438.49
40.0	-1.625	32.352	26.024	.0889	1438.67
42.5	-1.575	32.429	26.086	.0937	1439.06
45.0	-1.565	32.485	26.131	.0985	1439.22
47.5	-1.542	32.539	26.174	.1031	1439.45
50.0	-1.531	32.576	26.204	.1076	1439.59
55.0	-1.505	32.663	26.274	.1164	1439.92
60.0	-1.455	32.838	26.415	.1248	1440.49
65.0	-1.509	32.973	26.526	.1325	1440.50
70.0	-1.555	33.065	26.602	.1398	1440.50
75.0	-1.587	33.178	26.694	.1466	1440.59
78.0	-1.588	33.220	26.728	.1506	1440.69
79.0	-1.586	33.237	26.743	.1519	1440.74
80.0	-1.585	33.246	26.750	.1532	1440.77
81.0	-1.583	33.256	26.757	.1544	1440.81
82.0	-1.583	33.264	26.764	.1557	1440.84
83.0	-1.582	33.279	26.776	.1570	1440.88
84.0	-1.583	33.286	26.782	.1582	1440.91

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
85.0	-1.567	33.298	26.791	.1595	1441.01
86.0	-1.565	33.306	26.798	.1607	1441.05
87.0	-1.533	33.329	26.816	.1619	1441.25
88.0	-1.528	33.346	26.829	.1631	1441.31
89.0	-1.528	33.357	26.838	.1643	1441.35
90.0	-1.525	33.361	26.841	.1655	1441.38
91.0	-1.522	33.362	26.842	.1667	1441.42
92.0	-1.510	33.377	26.854	.1679	1441.51
93.0	-1.497	33.395	26.868	.1691	1441.61
94.0	-1.491	33.403	26.874	.1702	1441.67
95.0	-1.485	33.408	26.879	.1714	1441.72
96.0	-1.482	33.415	26.884	.1726	1441.76
97.0	-1.481	33.418	26.886	.1737	1441.79
98.0	-1.480	33.418	26.886	.1749	1441.81
99.0	-1.479	33.420	26.888	.1760	1441.83
99.9	-1.479	33.421	26.889	.1771	1441.85

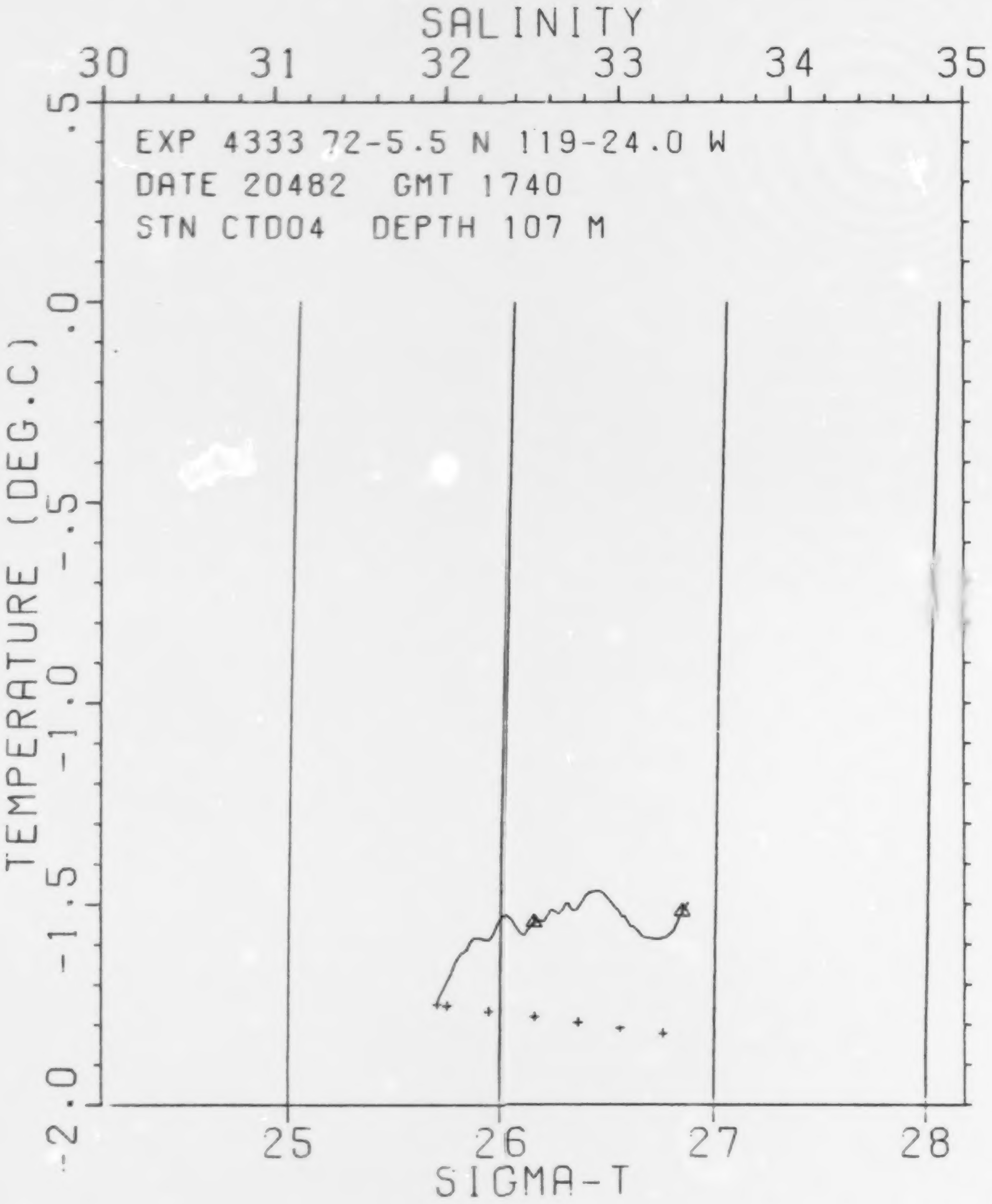

SALINITY
30
31
32
33
34
35
EXP 4332 72-8.0 N 119-31.2 W
DATE 20482 GMT 1655
STN CTD03 DEPTH 103 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

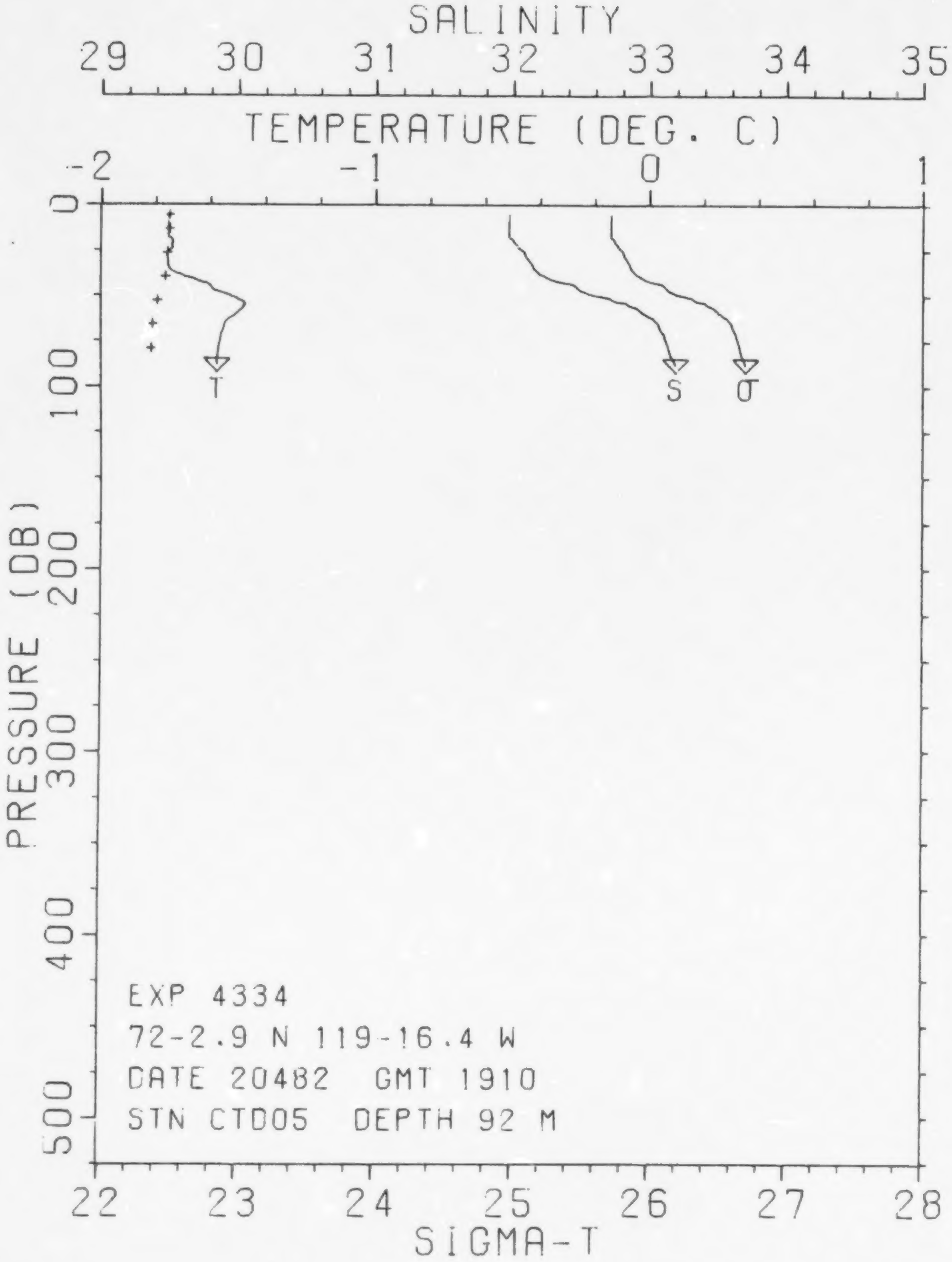

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4333
72-5.5 N 119-24.0 W
DATE 20482 GMT 1740
STN CTD04 DEPTH 107 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CT004 EXPERIMENT NO. 4333 DATE 020482 GMT 1740
LAT. 72-05.5 N LONG. 119-24.0 W
WATER DEPTH 107.0 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.7	-1.750	31.953	25.703	.0131	1436.95
6.0	-1.751	31.953	25.703	.0137	1436.96
7.0	-1.751	31.953	25.703	.0160	1436.97
8.0	-1.750	31.953	25.702	.0182	1436.99
9.0	-1.749	31.951	25.701	.0205	1437.01
10.0	-1.750	31.953	25.702	.0228	1437.02
11.0	-1.750	31.952	25.702	.0251	1437.04
12.0	-1.749	31.951	25.701	.0274	1437.06
13.0	-1.750	31.953	25.702	.0296	1437.07
14.0	-1.750	31.953	25.703	.0319	1437.09
15.0	-1.748	31.951	25.701	.0342	1437.11
16.0	-1.748	31.953	25.703	.0365	1437.13
17.0	-1.723	31.971	25.717	.0387	1437.29
18.0	-1.705	31.997	25.738	.0410	1437.43
19.0	-1.661	32.044	25.775	.0432	1437.72
20.0	-1.619	32.103	25.822	.0454	1438.02
21.0	-1.605	32.138	25.850	.0476	1438.15
22.0	-1.593	32.149	25.859	.0497	1438.24
23.0	-1.585	32.164	25.871	.0518	1438.32
24.0	-1.582	32.179	25.883	.0539	1438.37
25.0	-1.583	32.201	25.901	.0560	1438.41
27.5	-1.590	32.248	25.939	.0612	1438.49
30.0	-1.584	32.267	25.954	.0663	1438.58
32.5	-1.552	32.304	25.984	.0714	1438.83
35.0	-1.531	32.334	26.008	.0764	1439.01
37.5	-1.537	32.367	26.034	.0813	1439.07
40.0	-1.549	32.385	26.050	.0862	1439.08
42.5	-1.564	32.409	26.069	.0910	1439.08
45.0	-1.576	32.434	26.089	.0958	1439.10
47.5	-1.566	32.463	26.113	.1006	1439.23
50.0	-1.547	32.504	26.145	.1053	1439.42
55.0	-1.514	32.612	26.233	.1143	1439.81
60.0	-1.503	32.765	26.357	.1229	1440.16
65.0	-1.496	32.951	26.508	.1309	1440.53
70.0	-1.532	33.034	26.576	.1383	1440.56
75.0	-1.567	33.106	26.635	.1454	1440.58
80.0	-1.586	33.195	26.708	.1521	1440.70
82.0	-1.588	33.213	26.723	.1548	1440.74
83.0	-1.587	33.220	26.728	.1561	1440.78
84.0	-1.587	33.234	26.740	.1574	1440.82
85.0	-1.587	33.240	26.745	.1586	1440.84
86.0	-1.585	33.248	26.751	.1599	1440.88
87.0	-1.583	33.254	26.756	.1612	1440.91

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
88.0	-1.583	33.258	26.759	.1625	1440.93
89.0	-1.581	33.271	26.770	.1637	1440.98
90.0	-1.578	33.280	26.777	.1650	1441.02
91.0	-1.578	33.284	26.780	.1663	1441.04
92.0	-1.574	33.289	26.784	.1675	1441.08
93.0	-1.572	33.299	26.792	.1687	1441.12
94.0	-1.570	33.303	26.795	.1700	1441.15
95.0	-1.569	33.306	26.798	.1712	1441.18
96.0	-1.569	33.311	26.802	.1724	1441.20
97.0	-1.566	33.314	26.804	.1737	1441.24
98.0	-1.562	33.321	26.810	.1749	1441.29
99.0	-1.542	33.340	26.825	.1761	1441.42
100.0	-1.518	33.364	26.844	.1773	1441.58
101.0	-1.509	33.381	26.857	.1785	1441.67
102.0	-1.503	33.388	26.862	.1797	1441.72
103.0	-1.497	33.396	26.869	.1808	1441.78
103.6	-1.495	33.399	26.872	.1815	1441.80


SALINITY
30
31
32
33
34
35
EXP 4333 72-5.5 N 119-24.0 W
DATE 20482 GMT 1740
STN CTD04 DEPTH 107 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

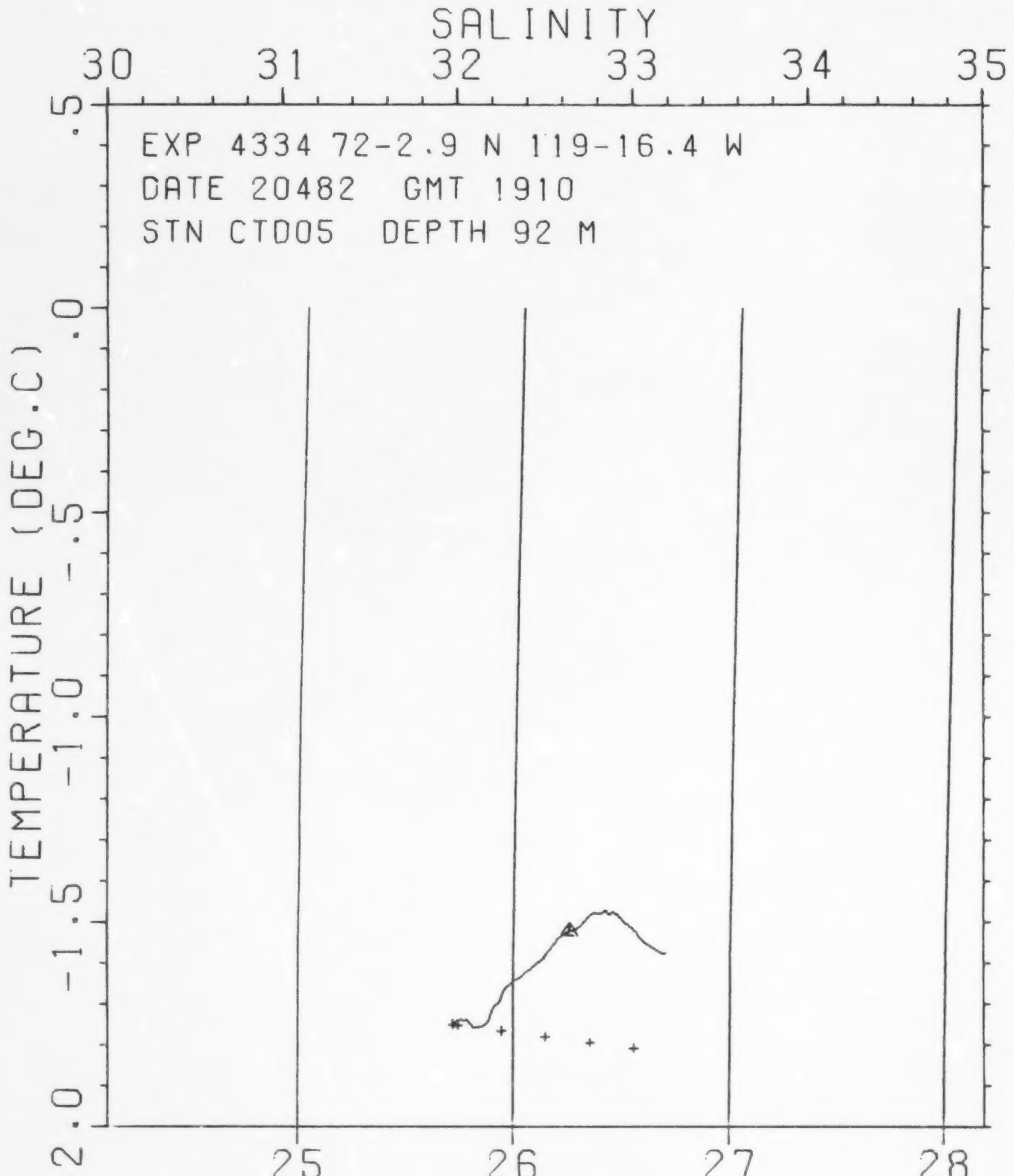


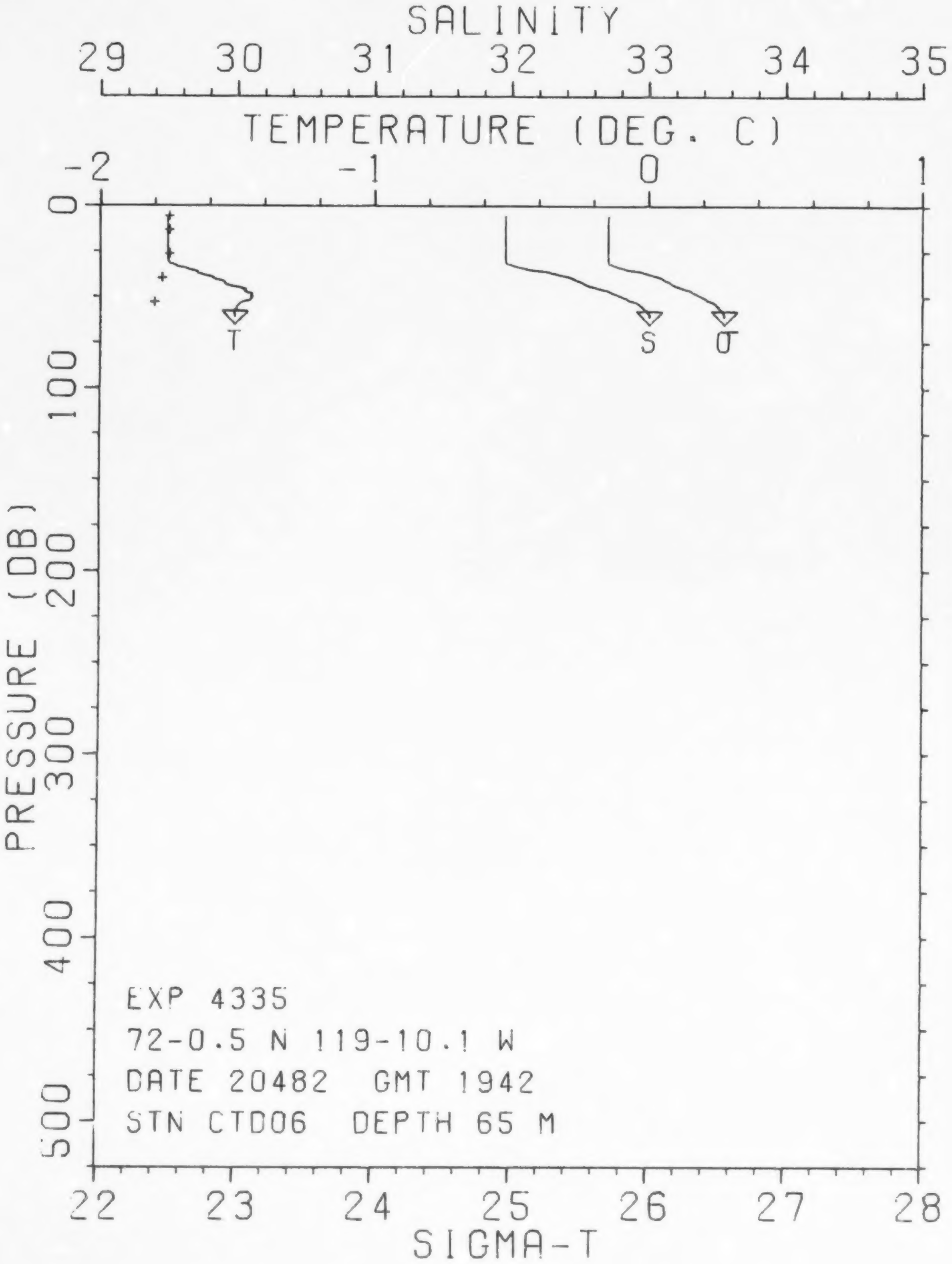
EXP 4334
72-2.9 N 119-16.4 W
DATE 20482 GMT 1910
STN CTD05 DEPTH 92 M

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD05 EXPERIMENT NO. 4334 DATE 020482 GMT 1910
LAT. 72-02.9 N LONG. 119-16.4 W
WATER DEPTH 91.9 M ICE THICKNESS 1.9 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.754	31.974	25.720	.0125	1436.96
6.0	-1.754	31.975	25.721	.0136	1436.97
7.0	-1.754	31.975	25.721	.0158	1436.99
8.0	-1.753	31.974	25.720	.0181	1437.01
9.0	-1.753	31.973	25.719	.0204	1437.02
10.0	-1.755	31.974	25.720	.0226	1437.03
11.0	-1.754	31.973	25.719	.0249	1437.05
12.0	-1.753	31.972	25.718	.0271	1437.07
13.0	-1.754	31.974	25.720	.0294	1437.08
14.0	-1.753	31.973	25.719	.0317	1437.10
15.0	-1.754	31.973	25.719	.0339	1437.12
16.0	-1.753	31.972	25.718	.0362	1437.13
17.0	-1.754	31.973	25.719	.0385	1437.15
18.0	-1.754	31.975	25.721	.0407	1437.17
19.0	-1.740	31.998	25.739	.0430	1437.28
20.0	-1.737	32.007	25.746	.0452	1437.32
21.0	-1.738	32.016	25.754	.0474	1437.35
22.0	-1.740	32.031	25.766	.0497	1437.38
23.0	-1.740	32.041	25.774	.0519	1437.41
24.0	-1.739	32.049	25.780	.0541	1437.44
25.0	-1.747	32.072	25.800	.0563	1437.45
27.5	-1.759	32.095	25.818	.0617	1437.47
30.0	-1.756	32.113	25.833	.0671	1437.55
32.5	-1.755	32.139	25.854	.0725	1437.63
35.0	-1.751	32.155	25.867	.0778	1437.71
37.5	-1.729	32.190	25.895	.0831	1437.91
40.0	-1.686	32.248	25.942	.0882	1438.23
42.5	-1.634	32.363	26.034	.0933	1438.69
45.0	-1.597	32.464	26.114	.0981	1439.04
47.5	-1.578	32.507	26.149	.1027	1439.23
50.0	-1.523	32.637	26.253	.1073	1439.72
55.0	-1.470	32.848	26.423	.1156	1440.35
60.0	-1.504	32.970	26.523	.1233	1440.44
65.0	-1.548	33.062	26.599	.1305	1440.44
66.0	-1.551	33.069	26.605	.1320	1440.46
67.0	-1.552	33.073	26.609	.1334	1440.47
68.0	-1.553	33.078	26.612	.1348	1440.49
69.0	-1.556	33.086	26.619	.1362	1440.51
70.0	-1.558	33.093	26.625	.1376	1440.52
71.0	-1.562	33.106	26.635	.1390	1440.54
72.0	-1.562	33.109	26.638	.1404	1440.56
73.0	-1.562	33.111	26.639	.1418	1440.58
74.0	-1.564	33.117	26.644	.1432	1440.59

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
75.0	-1.566	33.123	26.649	.1445	1440.61
76.0	-1.568	33.128	26.653	.1459	1440.62
77.0	-1.569	33.133	26.658	.1473	1440.64
78.0	-1.570	33.138	26.661	.1486	1440.66
79.0	-1.571	33.141	26.664	.1500	1440.67
80.0	-1.571	33.144	26.666	.1514	1440.70
81.0	-1.572	33.146	26.668	.1527	1440.71
82.0	-1.574	33.151	26.672	.1541	1440.72
83.0	-1.575	33.155	26.675	.1554	1440.74
84.0	-1.576	33.166	26.684	.1568	1440.77
85.0	-1.577	33.170	26.687	.1581	1440.79
86.0	-1.577	33.182	26.697	.1594	1440.82
87.0	-1.578	33.188	26.702	.1608	1440.84
88.0	-1.577	33.191	26.705	.1621	1440.87
88.3	-1.577	33.186	26.701	.1625	1440.86

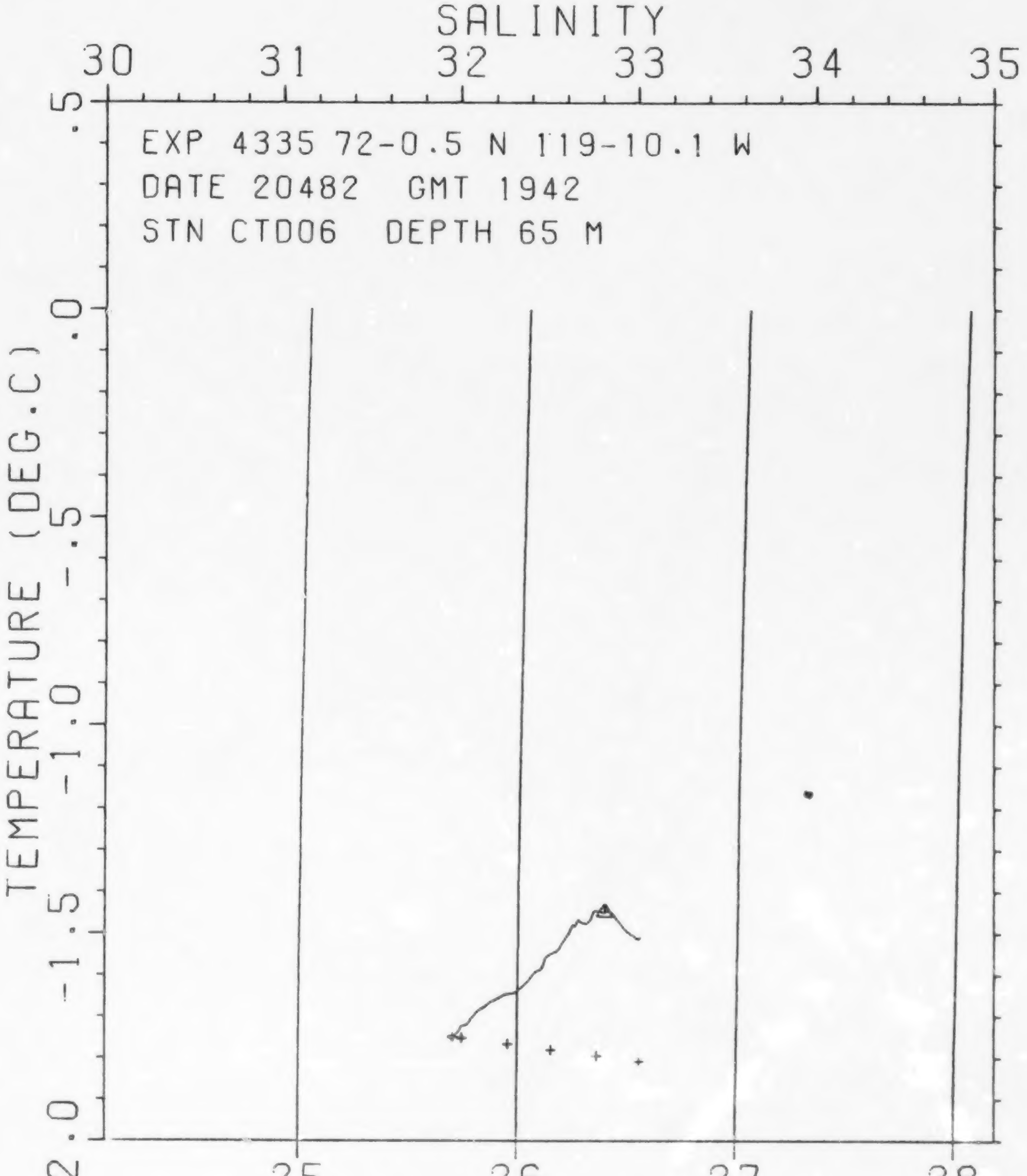

SALINITY
30
31
32
33
34
35
EXP 4334 72-2.9 N 119-16.4 W
DATE 20482 GMT 1910
STN CTD05 DEPTH 92 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

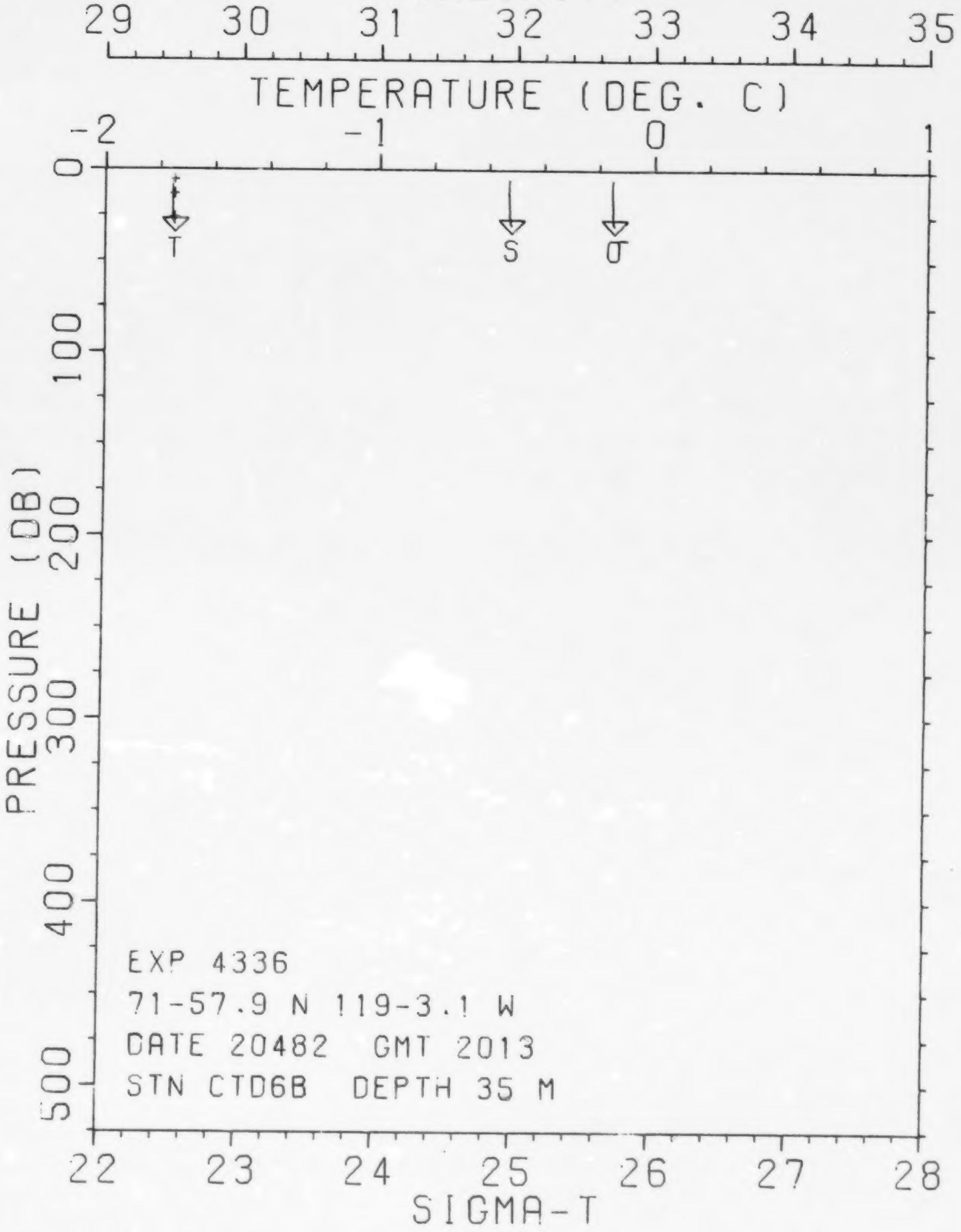

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
0
100
200
300
400
500
PRESSURE (DB)
T
S
σ
EXP 4335
72-0.5 N 119-10.1 W
DATE 20482 GMT 1942
STN CTD06 DEPTH 65 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD06 EXPERIMENT NO. 4335 DATE 020482 GMT 1942
LAT. 72-00.5 N LONG. 119-10.1 W
WATER DEPTH 65.0 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.756	31.955	25.705	.0124	1436.93
6.0	-1.755	31.955	25.705	.0136	1436.94
7.0	-1.753	31.953	25.703	.0159	1436.96
8.0	-1.754	31.954	25.703	.0182	1436.97
9.0	-1.753	31.954	25.704	.0205	1436.99
10.0	-1.753	31.954	25.703	.0227	1437.01
11.0	-1.754	31.955	25.704	.0250	1437.02
12.0	-1.755	31.957	25.706	.0273	1437.04
13.0	-1.754	31.956	25.705	.0296	1437.06
14.0	-1.754	31.955	25.705	.0319	1437.07
15.0	-1.755	31.956	25.705	.0341	1437.09
16.0	-1.755	31.956	25.706	.0364	1437.10
17.0	-1.754	31.956	25.705	.0387	1437.12
18.0	-1.755	31.956	25.705	.0410	1437.14
19.0	-1.754	31.955	25.705	.0432	1437.16
20.0	-1.754	31.956	25.705	.0455	1437.17
21.0	-1.754	31.956	25.705	.0478	1437.19
22.0	-1.755	31.957	25.706	.0501	1437.20
23.0	-1.754	31.956	25.706	.0523	1437.22
24.0	-1.754	31.957	25.706	.0546	1437.24
25.0	-1.755	31.957	25.706	.0569	1437.25
27.5	-1.753	31.957	25.706	.0626	1437.30
30.0	-1.753	31.959	25.707	.0682	1437.34
32.5	-1.727	31.998	25.739	.0739	1437.56
35.0	-1.677	32.134	25.848	.0794	1438.03
37.5	-1.639	32.327	26.004	.0845	1438.53
40.0	-1.586	32.453	26.105	.0894	1439.00
41.0	-1.557	32.479	26.126	.0913	1439.19
42.0	-1.547	32.518	26.157	.0931	1439.30
43.0	-1.544	32.540	26.175	.0950	1439.37
44.0	-1.527	32.568	26.197	.0968	1439.51
45.0	-1.494	32.617	26.236	.0986	1439.74
46.0	-1.470	32.672	26.281	.1003	1439.95
47.0	-1.475	32.717	26.317	.1020	1440.01
48.0	-1.460	32.740	26.335	.1037	1440.13
49.0	-1.445	32.777	26.365	.1053	1440.27
50.0	-1.449	32.810	26.392	.1070	1440.31
51.0	-1.448	32.841	26.417	.1086	1440.38
52.0	-1.453	32.857	26.430	.1102	1440.39
53.0	-1.485	32.914	26.477	.1117	1440.34
54.0	-1.494	32.933	26.493	.1133	1440.34
55.0	-1.500	32.949	26.506	.1148	1440.35
56.0	-1.505	32.963	26.517	.1163	1440.36

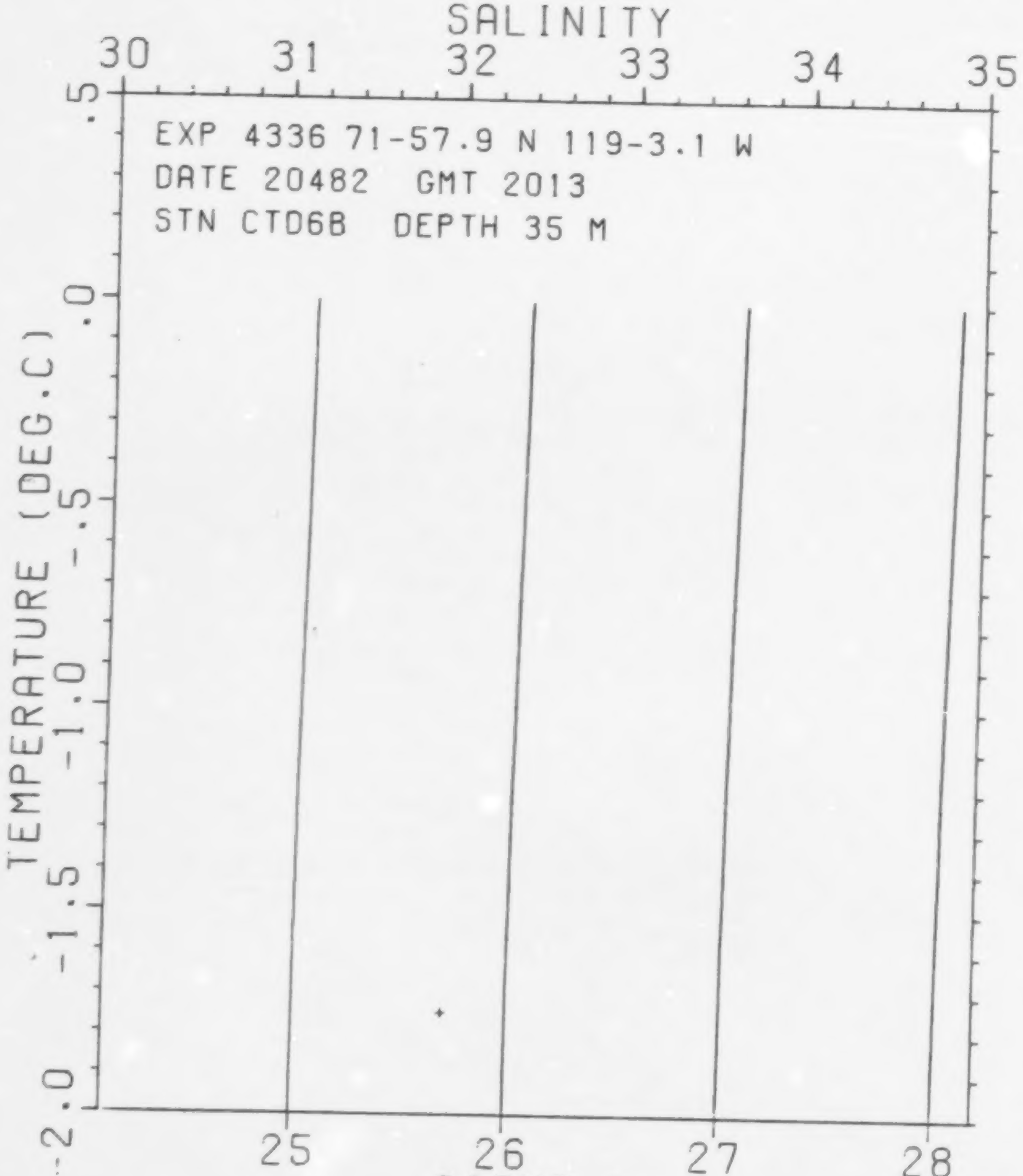
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
57.0	-1.507	32.976	26.528	.1178	1440.39
58.0	-1.514	32.994	26.543	.1193	1440.39
59.0	-1.513	33.001	26.549	.1207	1440.42
60.0	-1.509	33.010	26.556	.1222	1440.47
61.0	-1.509	33.009	26.555	.1237	1440.49
61.0	-1.510	33.006	26.553	.1238	1440.48

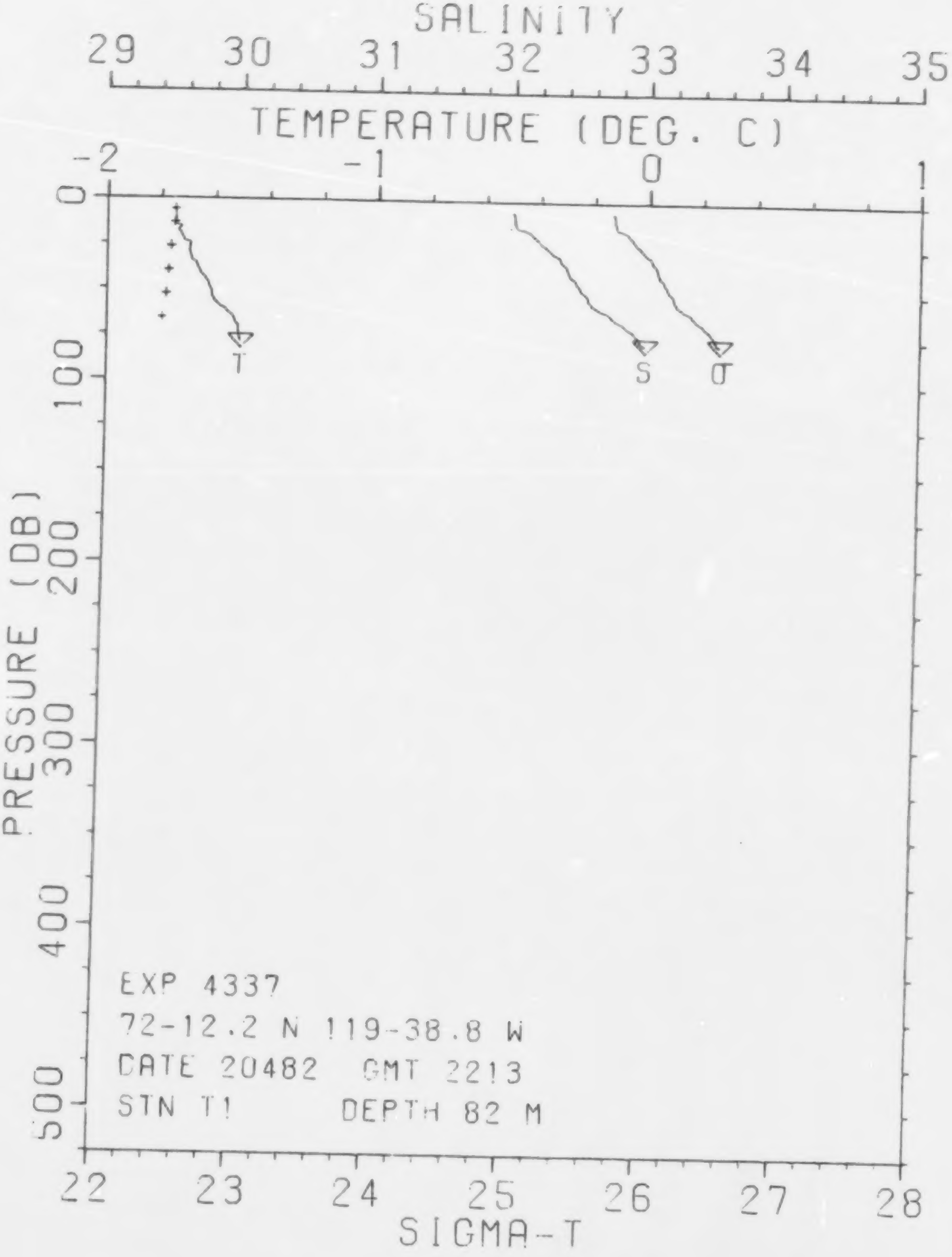

SALINITY
30
31
32
33
34
35
EXP 4335 72-0.5 N 119-10.1 W
DATE 20482 GMT 1942
STN CTD06 DEPTH 65 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
0
100
200
300
400
500
PRESSURE (DB)
T
S
σ
EXP 4336
71-57.9 N 119-3.1 W
DATE 20482 GMT 2013
STN CTD6B DEPTH 35 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD68 EXPERIMENT NO. 4336 DATE 020482 GMT 2013
LAT. 71-57.9 N LONG. 119-03.1 W
WATER DEPTH 34.6 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.755	31.946	25.697	.0126	1436.92
6.0	-1.755	31.946	25.697	.0137	1436.93
7.0	-1.755	31.946	25.697	.0160	1436.94
8.0	-1.754	31.944	25.695	.0183	1436.96
9.0	-1.754	31.944	25.696	.0206	1436.97
10.0	-1.755	31.945	25.696	.0228	1436.99
11.0	-1.755	31.944	25.696	.0251	1437.00
12.0	-1.755	31.945	25.696	.0274	1437.02
13.0	-1.754	31.944	25.695	.0297	1437.04
14.0	-1.754	31.945	25.696	.0320	1437.06
15.0	-1.754	31.946	25.697	.0343	1437.08
16.0	-1.754	31.948	25.699	.0365	1437.09
17.0	-1.754	31.948	25.698	.0388	1437.11
18.0	-1.754	31.948	25.698	.0411	1437.13
19.0	-1.755	31.950	25.700	.0434	1437.15
20.0	-1.754	31.949	25.700	.0457	1437.16
21.0	-1.754	31.950	25.700	.0480	1437.18
22.0	-1.754	31.951	25.701	.0502	1437.20
23.0	-1.754	31.951	25.701	.0525	1437.22
24.0	-1.754	31.951	25.701	.0548	1437.23
25.0	-1.753	31.950	25.700	.0571	1437.25
26.0	-1.754	31.952	25.702	.0593	1437.27
27.0	-1.754	31.954	25.703	.0616	1437.28
28.0	-1.752	31.953	25.703	.0639	1437.31
29.0	-1.751	31.954	25.704	.0662	1437.33
30.0	-1.747	31.960	25.709	.0685	1437.38
30.5	-1.745	31.965	25.712	.0696	1437.40

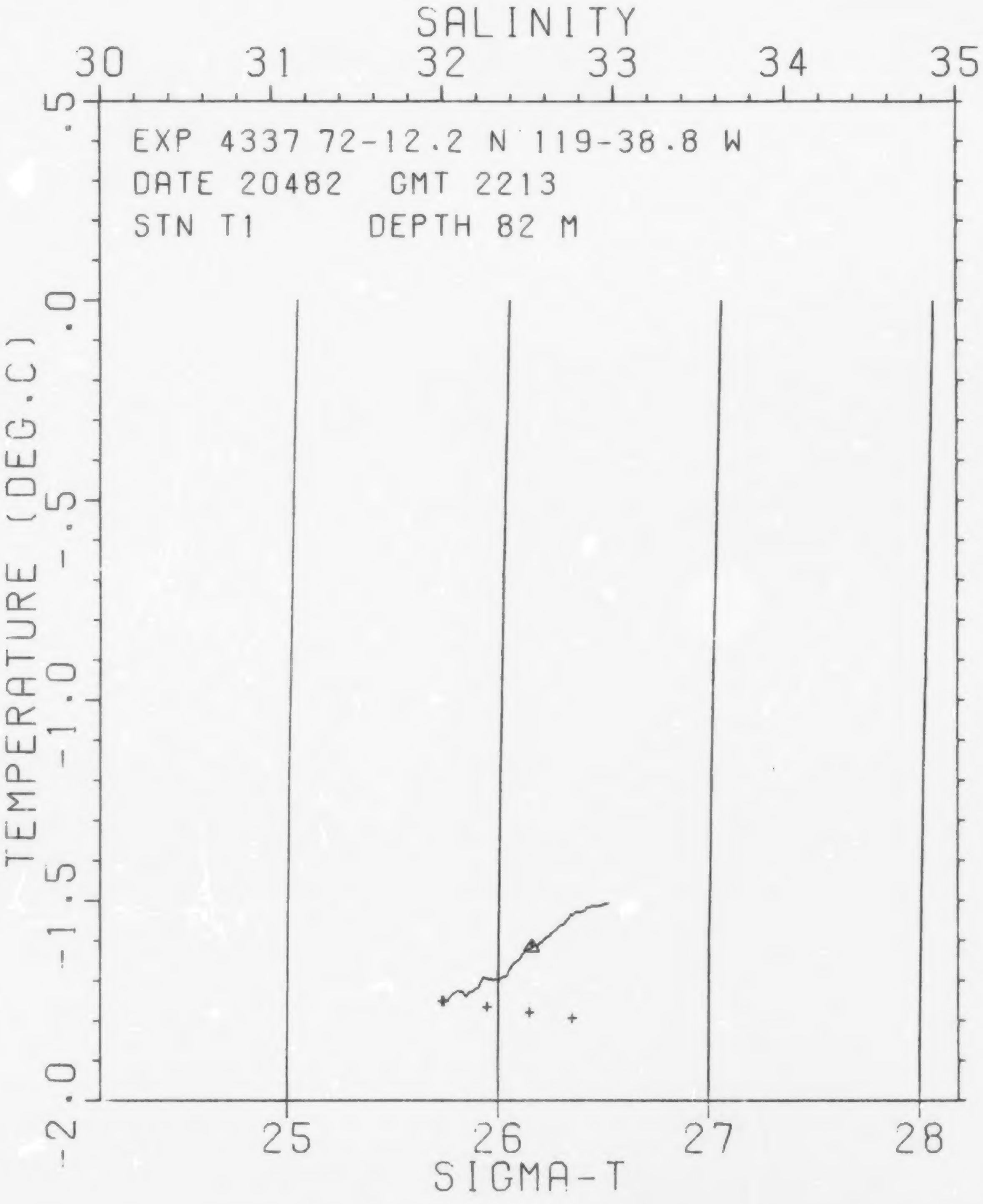

SALINITY
30
31
32
33
34
35
EXP 4336 71-57.9 N 119-3.1 W
DATE 20482 GMT 2013
STN CTD6B DEPTH 35 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

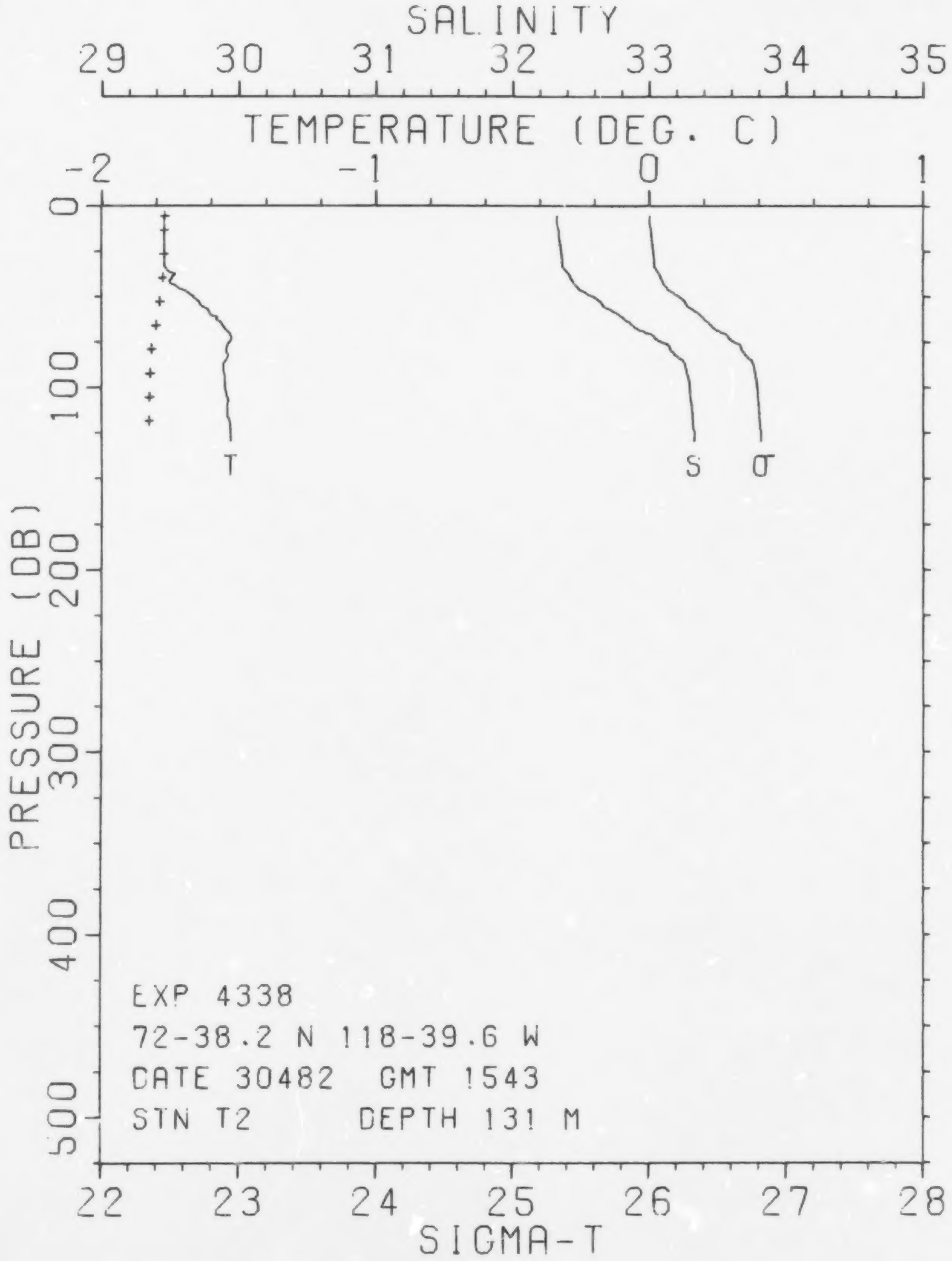

SALINITY
29 30 31 32 33 34 35
TEMPERATURE (DEG. C)
-2 -1 0 1
PRESSURE (DB)
0 100 200 300 400 500
T
S
σ
EXP 4337
72-12.2 N 119-38.8 W
DATE 20482 GMT 2213
STN T1 DEPTH 82 M
22 23 24 25 26 27 28
SIGMA-T
]

CRUISE C15-82-021 WESTERN NORTH-WEST PASSAGE
STATION T1   EXPERIMENT NO.   4337   DATE 020482 GMT 2213
LAT. 72-12.2 N   LONG. 119-38.8 W
WATER DEPTH   82.0 M   ICE THICKNESS *** M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.8	-1.750	31.989	25.732	.0133	1437.01
6.0	-1.749	31.995	25.737	.0137	1437.02
7.0	-1.749	32.003	25.743	.0159	1437.05
8.0	-1.748	32.003	25.743	.0182	1437.07
9.0	-1.748	32.003	25.743	.0204	1437.09
10.0	-1.747	32.002	25.742	.0227	1437.11
11.0	-1.749	32.005	25.745	.0249	1437.12
12.0	-1.746	32.010	25.749	.0271	1437.15
13.0	-1.750	32.016	25.754	.0294	1437.16
14.0	-1.752	32.020	25.757	.0316	1437.18
15.0	-1.745	32.032	25.767	.0338	1437.24
16.0	-1.727	32.096	25.819	.0360	1437.43
17.0	-1.733	32.122	25.840	.0381	1437.46
18.0	-1.740	32.134	25.849	.0403	1437.46
19.0	-1.730	32.151	25.863	.0424	1437.55
20.0	-1.727	32.165	25.874	.0445	1437.59
21.0	-1.725	32.160	25.886	.0467	1437.64
22.0	-1.720	32.192	25.897	.0488	1437.70
23.0	-1.717	32.201	25.904	.0508	1437.74
24.0	-1.709	32.214	25.914	.0529	1437.82
25.0	-1.691	32.239	25.934	.0550	1437.95
27.5	-1.694	32.278	25.966	.0601	1438.03
30.0	-1.696	32.326	26.005	.0651	1438.13
32.5	-1.691	32.350	26.024	.0701	1438.23
35.0	-1.675	32.384	26.052	.0750	1438.40
37.5	-1.666	32.396	26.061	.0798	1438.50
40.0	-1.657	32.410	26.072	.0846	1438.60
42.5	-1.645	32.452	26.106	.0894	1438.76
45.0	-1.634	32.463	26.114	.0941	1438.87
47.5	-1.624	32.493	26.138	.0988	1439.00
50.0	-1.619	32.521	26.161	.1035	1439.10
55.0	-1.606	32.563	26.195	.1126	1439.30
56.0	-1.603	32.577	26.206	.1144	1439.36
57.0	-1.602	32.579	26.208	.1162	1439.38
58.0	-1.591	32.607	26.231	.1179	1439.49
59.0	-1.584	32.633	26.252	.1197	1439.57
60.0	-1.574	32.660	26.273	.1214	1439.67
61.0	-1.560	32.697	26.303	.1232	1439.81
62.0	-1.559	32.711	26.315	.1249	1439.85
63.0	-1.549	32.723	26.324	.1266	1439.93
64.0	-1.540	32.743	26.340	.1282	1440.02
65.0	-1.536	32.753	26.348	.1299	1440.07
66.0	-1.526	32.779	26.369	.1315	1440.16

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
67.0	-1.531	32.810	26.394	.1332	1440.20
68.0	-1.526	32.823	26.405	.1348	1440.26
69.0	-1.526	32.834	26.413	.1364	1440.29
70.0	-1.517	32.859	26.434	.1380	1440.39
71.0	-1.513	32.883	26.453	.1396	1440.45
72.0	-1.515	32.892	26.460	.1411	1440.47
73.0	-1.514	32.899	26.466	.1427	1440.50
74.0	-1.514	32.918	26.481	.1442	1440.55
75.0	-1.513	32.927	26.489	.1457	1440.58
76.0	-1.513	32.932	26.493	.1473	1440.61
77.0	-1.511	32.938	26.497	.1488	1440.64
78.0	-1.509	32.951	26.508	.1503	1440.69
78.7	-1.506	32.971	26.524	.1513	1440.74

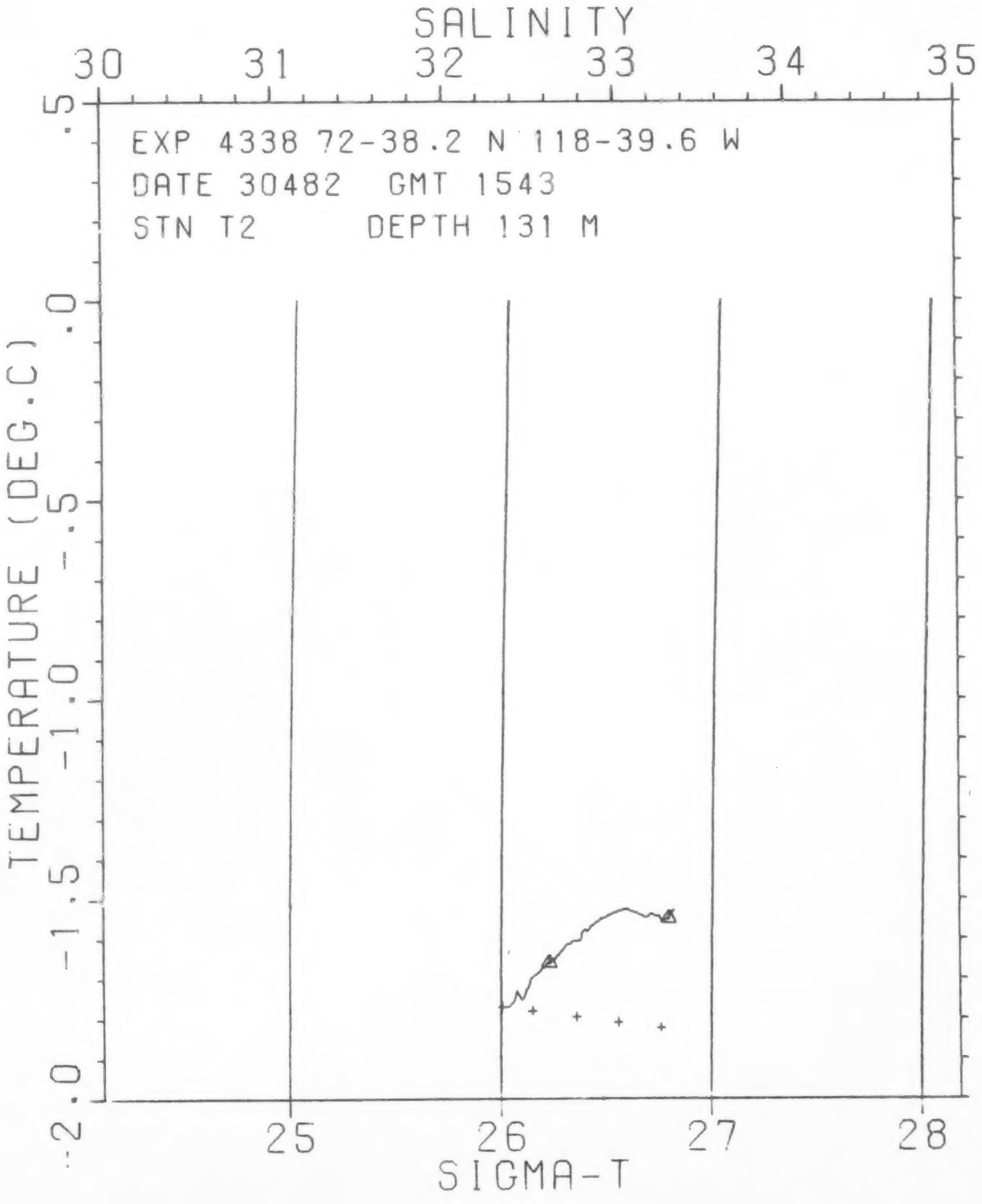

SALINITY
30
31
32
33
34
35
EXP 4337 72-12.2 N 119-38.8 W
DATE 20482 GMT 2213
STN T1 DEPTH 82 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

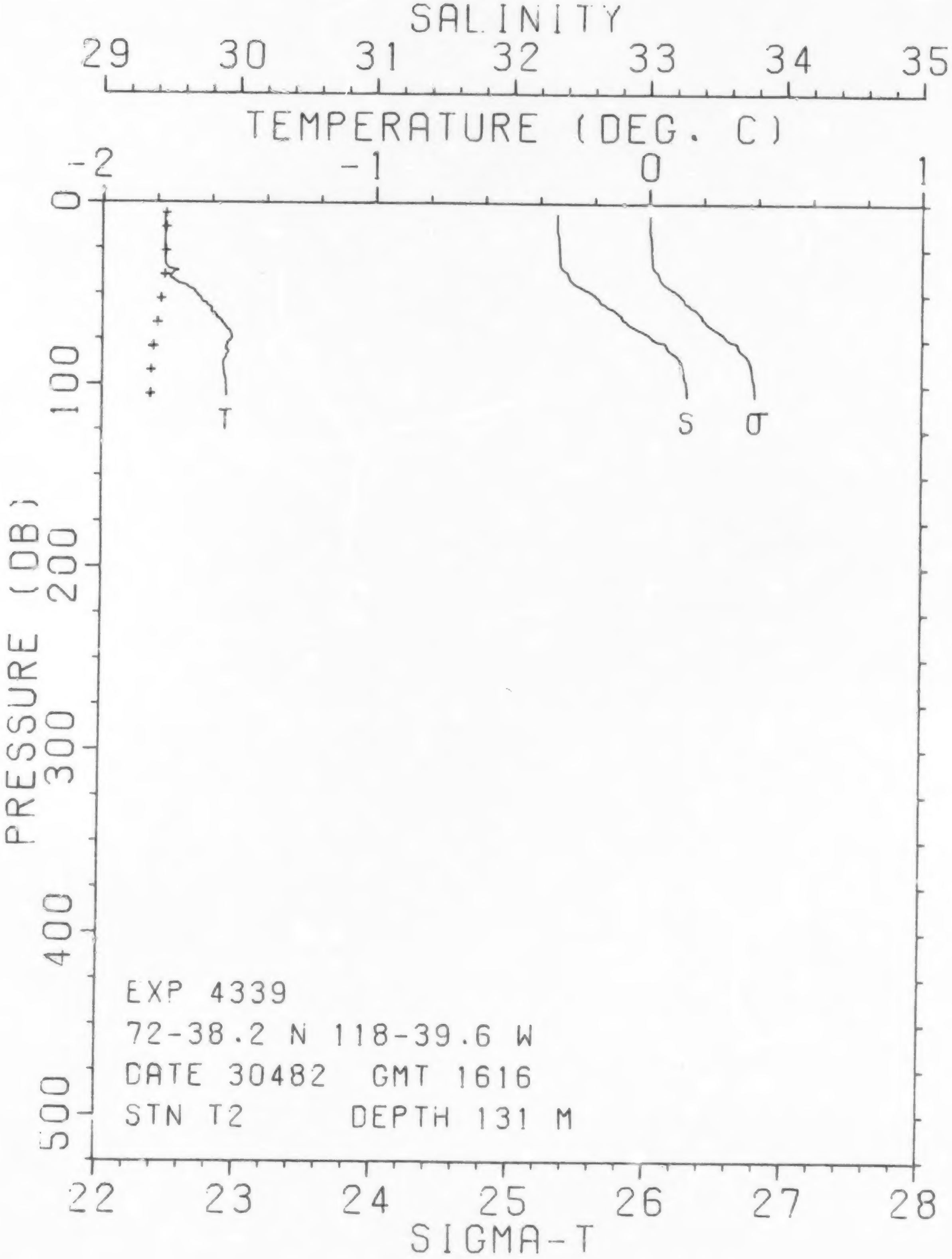

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4338
72-38.2 N 118-39.6 W
DATE 30482 GMT 1543
STN T2 DEPTH 131 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION T2 EXPERIMENT NO. 4338 DATE 030482 GMT 1543
LAT. 72-38.2 N LONG. 118-39.6 W
WATER DEPTH 131.0 M ICE THICKNESS *** M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.771	32.325	26.005	.0109	1437.37
6.0	-1.772	32.326	26.006	.0120	1437.38
7.0	-1.773	32.326	26.006	.0139	1437.39
8.0	-1.772	32.325	26.006	.0159	1437.41
9.0	-1.771	32.326	26.006	.0179	1437.43
10.0	-1.772	32.326	26.006	.0199	1437.45
11.0	-1.770	32.329	26.008	.0219	1437.48
12.0	-1.771	32.332	26.011	.0239	1437.49
13.0	-1.770	32.336	26.014	.0259	1437.52
14.0	-1.771	32.343	26.020	.0279	1437.54
15.0	-1.771	32.343	26.020	.0298	1437.56
16.0	-1.771	32.342	26.019	.0318	1437.57
17.0	-1.771	32.342	26.019	.0338	1437.59
18.0	-1.770	32.343	26.020	.0358	1437.61
19.0	-1.770	32.345	26.022	.0377	1437.63
20.0	-1.771	32.351	26.027	.0397	1437.65
21.0	-1.771	32.350	26.026	.0417	1437.67
22.0	-1.770	32.352	26.028	.0436	1437.69
23.0	-1.771	32.355	26.030	.0456	1437.71
24.0	-1.770	32.355	26.030	.0476	1437.72
25.0	-1.771	32.360	26.034	.0495	1437.74
27.5	-1.770	32.363	26.037	.0545	1437.79
30.0	-1.770	32.368	26.040	.0593	1437.84
32.5	-1.769	32.366	26.039	.0642	1437.88
35.0	-1.760	32.384	26.053	.0691	1437.99
37.5	-1.727	32.411	26.075	.0740	1438.23
40.0	-1.742	32.430	26.090	.0787	1438.22
42.5	-1.751	32.446	26.104	.0835	1438.25
45.0	-1.719	32.481	26.131	.0882	1438.49
47.5	-1.687	32.530	26.170	.0928	1438.75
50.0	-1.661	32.599	26.226	.0973	1439.01
55.0	-1.637	32.663	26.277	.1061	1439.30
60.0	-1.603	32.782	26.373	.1145	1439.71
65.0	-1.563	32.871	26.444	.1225	1440.11
70.0	-1.535	32.979	26.531	.1302	1440.47
75.0	-1.534	33.093	26.624	.1374	1440.72
80.0	-1.546	33.163	26.681	.1442	1440.84
85.0	-1.544	33.249	26.751	.1507	1441.05
90.0	-1.555	33.270	26.769	.1571	1441.11
95.0	-1.549	33.290	26.784	.1633	1441.25
100.0	-1.549	33.301	26.794	.1695	1441.35
105.0	-1.545	33.304	26.795	.1757	1441.46
110.0	-1.540	33.312	26.802	.1819	1441.57

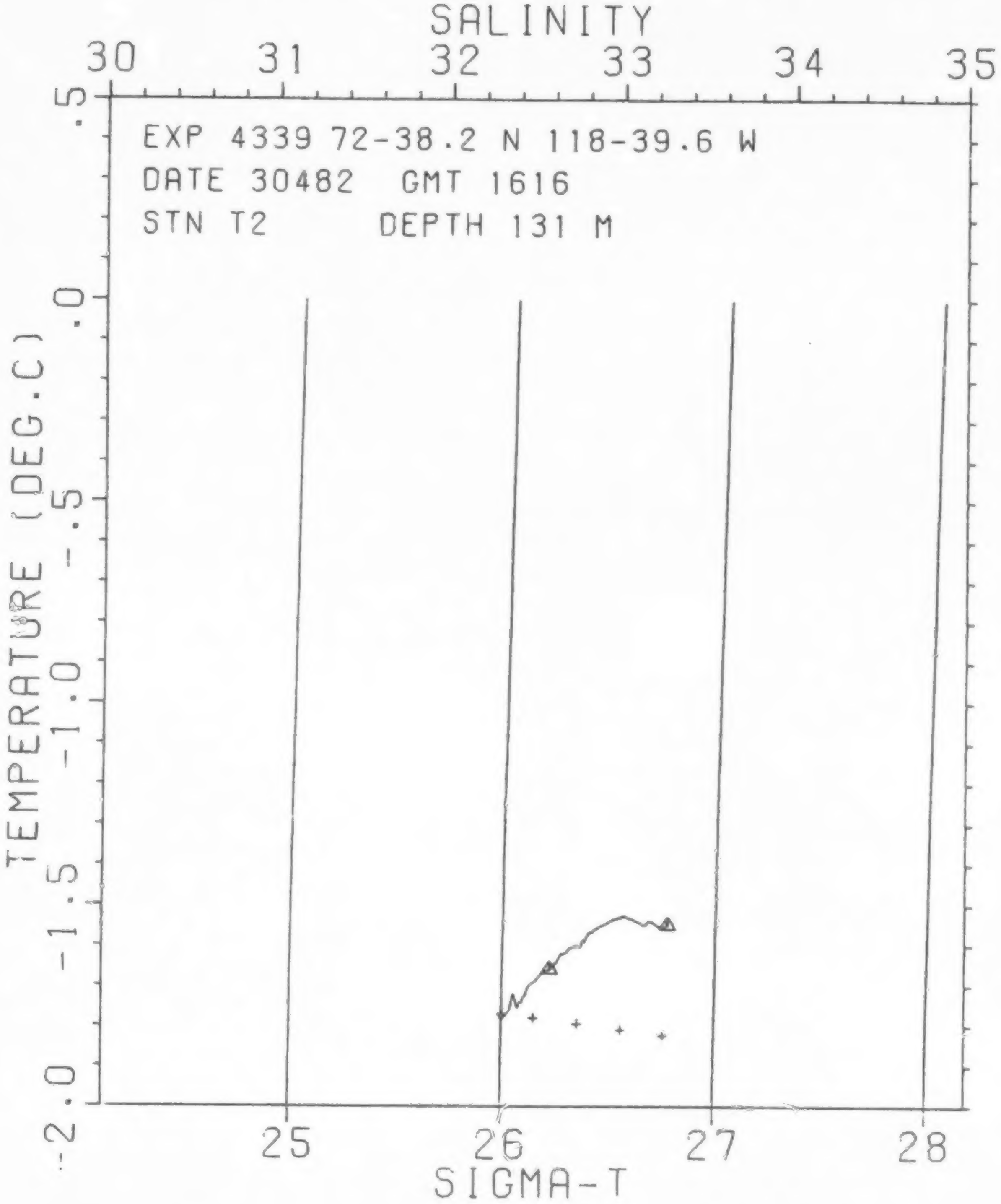
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.542	33.319	26.808	.1880	1441.66
120.0	-1.531	33.322	26.810	.1941	1441.79
125.0	-1.529	33.334	26.819	.2002	1441.90
129.8	-1.528	33.330	26.816	.2060	1441.98

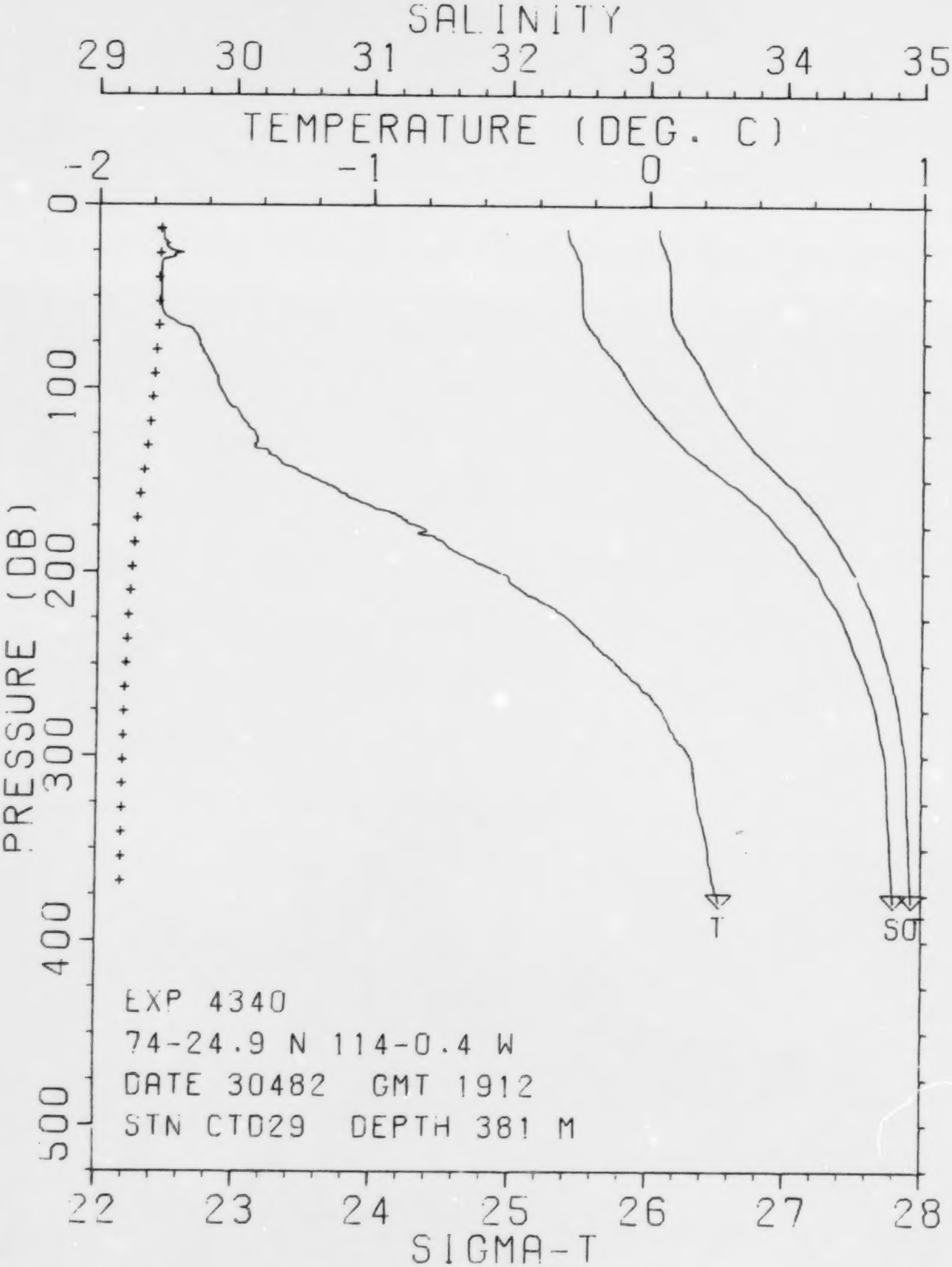

SALINITY
30
31
32
33
34
35
EXP 4338 72-38.2 N 118-39.6 W
DATE 30482 GMT 1543
STN T2 DEPTH 131 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4339
72-38.2 N 118-39.6 W
DATE 30482 GMT 1616
STN T2 DEPTH 131 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION T2 EXPERIMENT NO. 4339 DATE 030482 GMT 1616
LAT. 72-38.2 N LONG. 118-39.6 W
WATER DEPTH 131.0 M ICE THICKNESS *** M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.7	-1.774	32.322	26.003	.0113	1437.36
6.0	-1.774	32.322	26.003	.0120	1437.36
7.0	-1.775	32.322	26.003	.0140	1437.38
8.0	-1.774	32.322	26.003	.0159	1437.40
9.0	-1.774	32.322	26.003	.0179	1437.41
10.0	-1.775	32.323	26.004	.0199	1437.43
11.0	-1.774	32.321	26.003	.0219	1437.45
12.0	-1.773	32.322	26.003	.0239	1437.46
13.0	-1.773	32.321	26.002	.0259	1437.48
14.0	-1.774	32.321	26.003	.0279	1437.50
15.0	-1.773	32.321	26.002	.0299	1437.51
16.0	-1.772	32.323	26.004	.0319	1437.54
17.0	-1.771	32.328	26.008	.0339	1437.57
18.0	-1.773	32.332	26.011	.0359	1437.58
19.0	-1.774	32.334	26.013	.0379	1437.59
20.0	-1.773	32.334	26.013	.0398	1437.61
21.0	-1.773	32.335	26.014	.0418	1437.63
22.0	-1.774	32.337	26.015	.0438	1437.65
23.0	-1.773	32.339	26.016	.0458	1437.67
24.0	-1.773	32.339	26.017	.0478	1437.69
25.0	-1.774	32.340	26.017	.0497	1437.70
27.5	-1.772	32.341	26.019	.0547	1437.75
30.0	-1.772	32.345	26.022	.0596	1437.80
32.5	-1.772	32.347	26.023	.0646	1437.84
35.0	-1.768	32.350	26.025	.0695	1437.91
37.5	-1.719	32.386	26.054	.0744	1438.23
40.0	-1.749	32.407	26.072	.0792	1438.16
42.5	-1.740	32.425	26.086	.0840	1438.27
45.0	-1.711	32.464	26.117	.0887	1438.50
47.5	-1.676	32.534	26.173	.0934	1438.81
50.0	-1.658	32.595	26.222	.0979	1439.02
55.0	-1.621	32.660	26.275	.1067	1439.37
60.0	-1.605	32.770	26.363	.1151	1439.68
65.0	-1.565	32.838	26.418	.1232	1440.05
70.0	-1.538	32.949	26.507	.1310	1440.41
75.0	-1.529	33.041	26.582	.1384	1440.67
80.0	-1.549	33.137	26.660	.1453	1440.79
85.0	-1.549	33.218	26.726	.1519	1440.99
90.0	-1.558	33.246	26.749	.1584	1441.06
95.0	-1.555	33.260	26.760	.1647	1441.18
100.0	-1.548	33.276	26.773	.1711	1441.32
105.0	-1.547	33.281	26.777	.1773	1441.41
106.5	-1.547	33.282	26.777	.1792	1441.44


SALINITY
30
31
32
33
34
35
.5
.0
-.5
-1.0
-1.5
-2.0
TEMPERATURE (DEG.C)
EXP 4339 72-38.2 N 118-39.6 W
DATE 30482 GMT 1616
STN T2 DEPTH 131 M
25
26
27
28
SIGMA-T

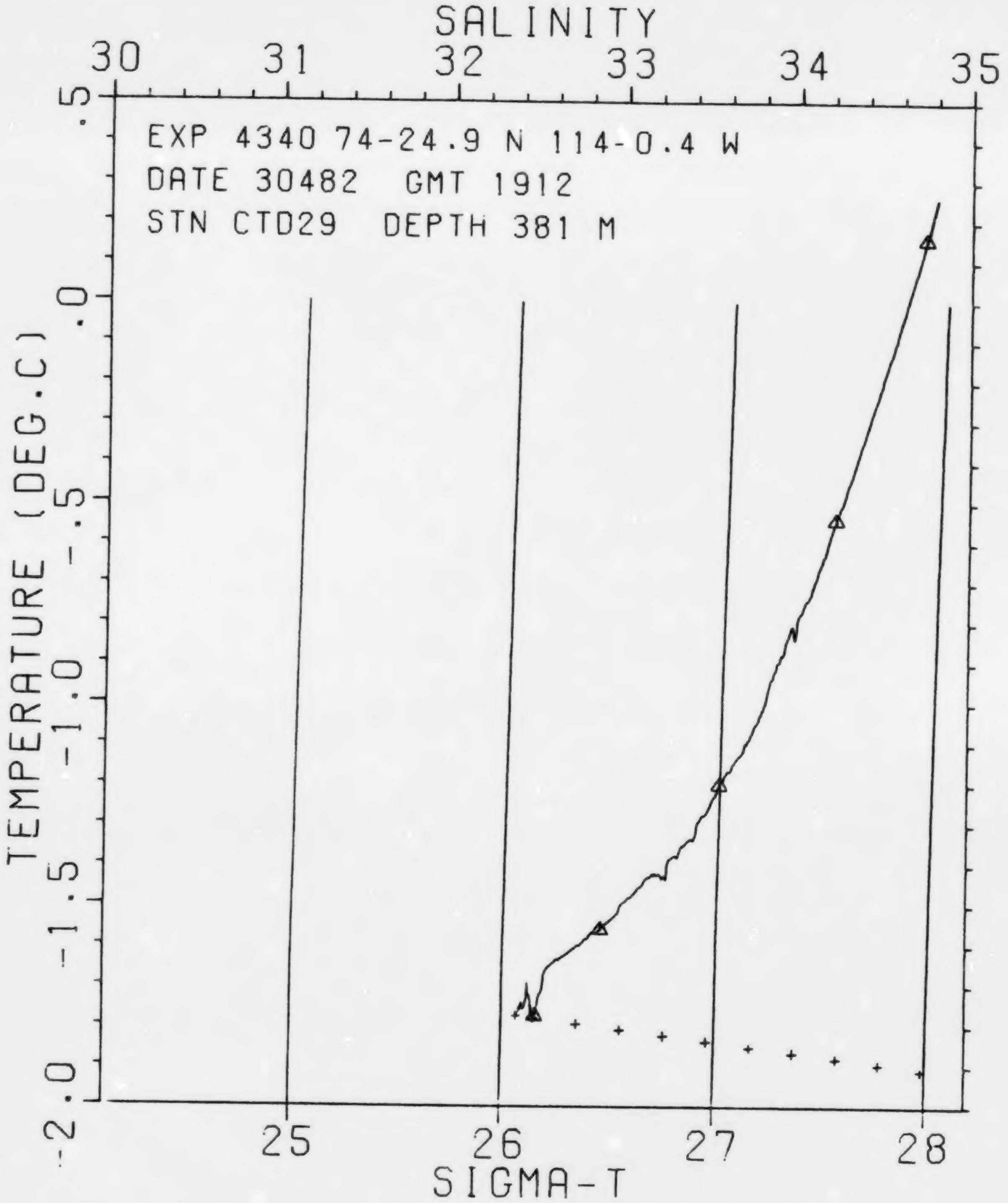

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4340
74-24.9 N 114-0.4 W
DATE 30482 GMT 1912
STN CTD29 DEPTH 381 M
22
23
24
25
26
27
28
SIGMA-T

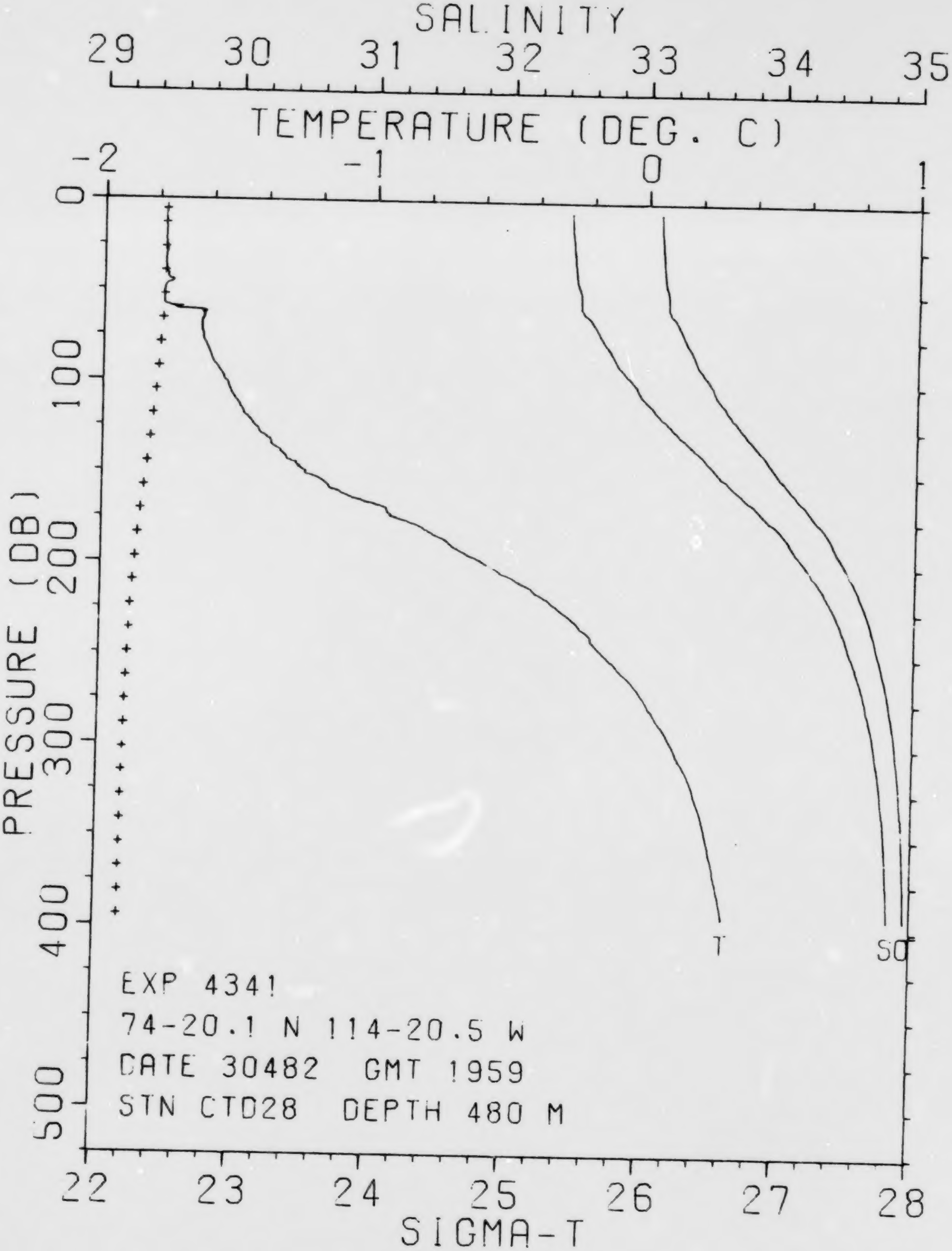
CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD29 EXPERIMENT NO. 4340 DATE 030482 GMT 1912
LAT. 74-24.9 N LONG. 114-00.4 W
WATER DEPTH 381.4 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
12.6	-1.767	32.401	26.067	.0245	1437.62
13.0	-1.769	32.405	26.070	.0252	1437.62
14.0	-1.767	32.403	26.069	.0272	1437.64
15.0	-1.766	32.405	26.070	.0291	1437.67
16.0	-1.766	32.407	26.072	.0310	1437.69
17.0	-1.764	32.410	26.074	.0329	1437.72
18.0	-1.766	32.417	26.080	.0349	1437.73
19.0	-1.764	32.417	26.080	.0368	1437.76
20.0	-1.752	32.421	26.083	.0387	1437.83
21.0	-1.753	32.428	26.088	.0406	1437.86
22.0	-1.757	32.443	26.101	.0425	1437.88
23.0	-1.754	32.449	26.106	.0444	1437.92
24.0	-1.744	32.455	26.110	.0463	1437.99
25.0	-1.731	32.463	26.116	.0482	1438.08
27.5	-1.727	32.475	26.127	.0529	1438.16
30.0	-1.768	32.494	26.142	.0576	1438.03
32.5	-1.773	32.502	26.149	.0622	1438.06
35.0	-1.774	32.503	26.150	.0668	1438.09
37.5	-1.774	32.507	26.154	.0714	1438.14
40.0	-1.775	32.509	26.155	.0761	1438.18
42.5	-1.774	32.509	26.155	.0807	1438.22
45.0	-1.774	32.509	26.155	.0853	1438.27
47.5	-1.774	32.510	26.156	.0899	1438.31
50.0	-1.774	32.510	26.156	.0945	1438.35
55.0	-1.773	32.511	26.157	.1037	1438.44
60.0	-1.761	32.517	26.161	.1129	1438.58
65.0	-1.711	32.551	26.188	.1221	1438.95
70.0	-1.649	32.595	26.223	.1311	1439.39
75.0	-1.632	32.641	26.259	.1399	1439.62
80.0	-1.619	32.697	26.305	.1485	1439.84
85.0	-1.598	32.755	26.351	.1569	1440.10
90.0	-1.581	32.805	26.391	.1650	1440.33
95.0	-1.564	32.843	26.421	.1731	1440.55
100.0	-1.559	32.886	26.456	.1809	1440.72
105.0	-1.539	32.931	26.492	.1886	1440.96
110.0	-1.519	32.985	26.536	.1961	1441.21
115.0	-1.483	33.042	26.581	.2034	1441.54
120.0	-1.453	33.103	26.630	.2105	1441.85
125.0	-1.428	33.158	26.674	.2173	1442.13
130.0	-1.423	33.228	26.730	.2239	1442.33
135.0	-1.379	33.295	26.783	.2303	1442.72
140.0	-1.336	33.390	26.859	.2363	1443.14
145.0	-1.273	33.481	26.932	.2420	1443.64

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
150.0	-1.201	33.563	26.996	.2474	1444.18
155.0	-1.129	33.673	27.082	.2524	1444.75
160.0	-1.078	33.743	27.137	.2571	1445.17
165.0	-.996	33.825	27.201	.2615	1445.75
170.0	-.895	33.893	27.252	.2656	1446.40
175.0	-.834	33.949	27.295	.2695	1446.84
180.0	-.788	34.007	27.341	.2732	1447.22
185.0	-.735	34.072	27.391	.2766	1447.64
190.0	-.685	34.117	27.425	.2799	1448.01
195.0	-.618	34.168	27.463	.2830	1448.48
200.0	-.542	34.223	27.505	.2859	1448.99
210.0	-.457	34.289	27.555	.2913	1449.64
220.0	-.334	34.385	27.626	.2961	1450.50
230.0	-.254	34.444	27.670	.3004	1451.12
240.0	-.190	34.492	27.706	.3043	1451.64
250.0	-.114	34.552	27.750	.3079	1452.24
260.0	-.038	34.602	27.787	.3111	1452.82
270.0	.023	34.646	27.819	.3139	1453.33
280.0	.067	34.679	27.843	.3165	1453.73
290.0	.101	34.700	27.858	.3189	1454.08
300.0	.157	34.735	27.883	.3211	1454.55
310.0	.170	34.746	27.892	.3232	1454.79
320.0	.179	34.752	27.896	.3252	1455.00
330.0	.189	34.756	27.899	.3272	1455.21
340.0	.209	34.766	27.906	.3291	1455.48
350.0	.223	34.776	27.914	.3310	1455.72
356.0	.226	34.779	27.915	.3321	1455.84
357.0	.226	34.778	27.915	.3323	1455.86
358.0	.229	34.779	27.915	.3324	1455.89
359.0	.230	34.782	27.917	.3326	1455.91
360.0	.235	34.781	27.917	.3328	1455.95
361.0	.235	34.784	27.919	.3330	1455.97
362.0	.236	34.784	27.919	.3332	1455.99
363.0	.236	34.786	27.921	.3333	1456.01
364.0	.238	34.786	27.921	.3335	1456.04
365.0	.239	34.786	27.920	.3337	1456.06
366.0	.239	34.786	27.921	.3339	1456.07
367.0	.239	34.787	27.921	.3340	1456.09
368.0	.241	34.788	27.922	.3342	1456.11
369.0	.246	34.789	27.922	.3344	1456.16
370.0	.249	34.790	27.923	.3346	1456.19
371.0	.249	34.793	27.925	.3347	1456.21
372.0	.249	34.793	27.925	.3349	1456.23
373.0	.251	34.792	27.925	.3351	1456.25
374.0	.253	34.793	27.925	.3353	1456.28
375.0	.261	34.796	27.927	.3354	1456.33
376.0	.262	34.796	27.927	.3356	1456.35
377.0	.261	34.798	27.929	.3358	1456.37
378.0	.262	34.799	27.930	.3359	1456.39

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
378.0	.262	34.799	27.930	.3359	1456.39
379.0	.263	34.803	27.933	.3361	1456.42

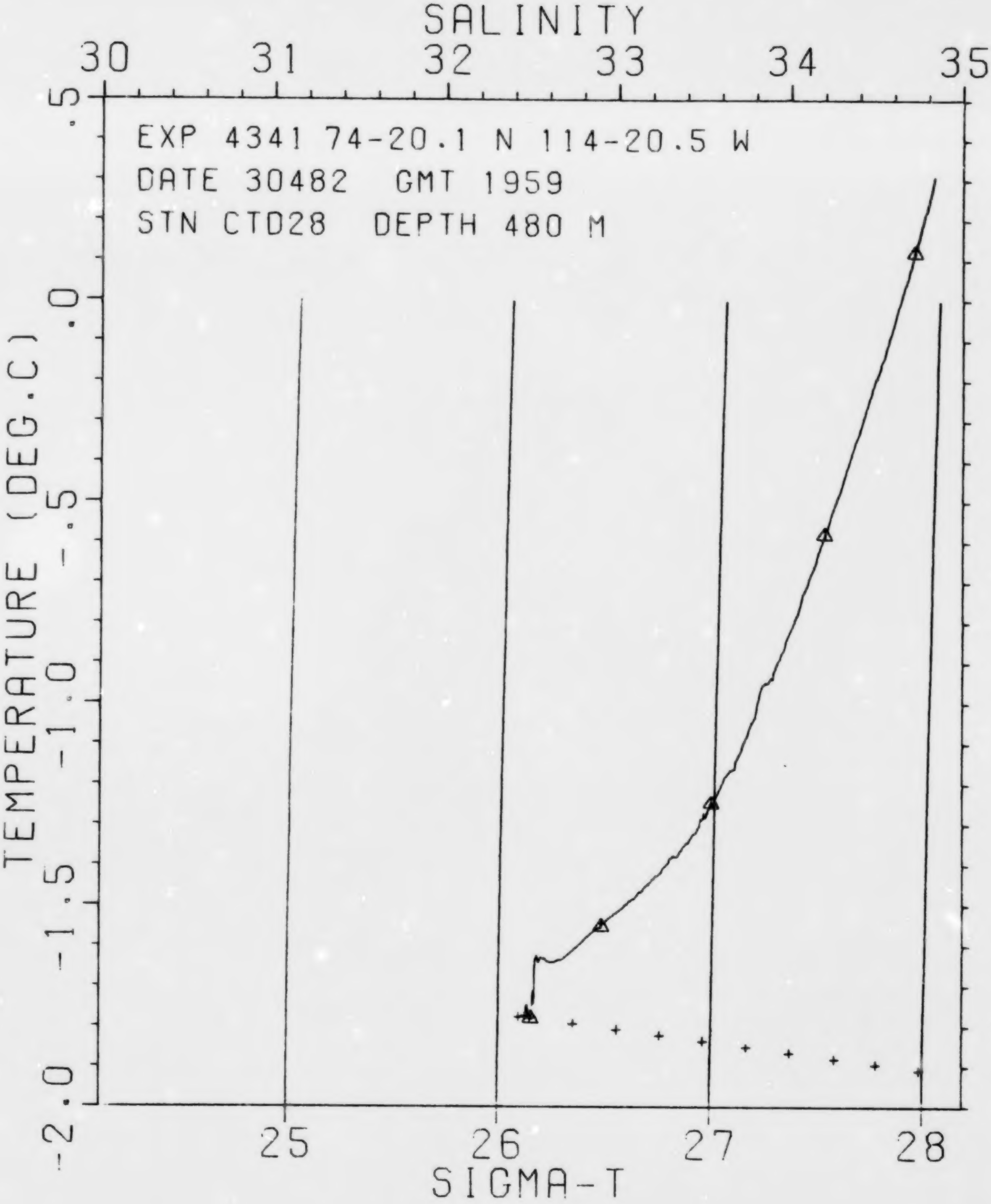

SALINITY
30
31
32
33
34
35
EXP 4340 74-24.9 N 114-0.4 W
DATE 30482 GMT 1912
STN CTD29 DEPTH 381 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

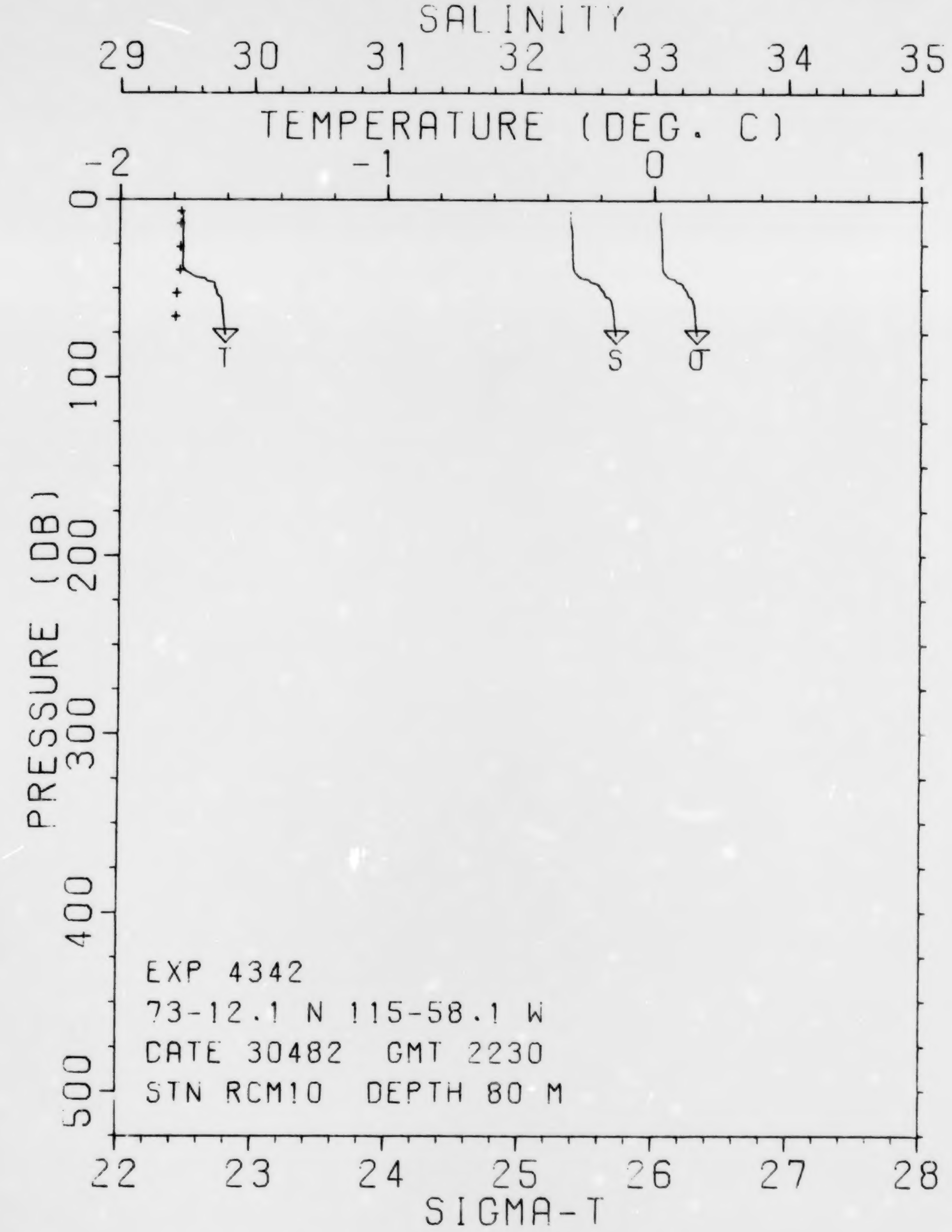

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4341
74-20.1 N 114-20.5 W
DATE 30482 GMT 1959
STN CTD28 DEPTH 480 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD28 EXPERIMENT NO. 4341 DATE 030482 GMT 1959
LAT. 74-20.1 N LONG. 114-20.5 W
WATER DEPTH 480.0 M ICE THICKNESS 1.9 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.6	-1.779	32.434	26.094	.0107	1437.49
6.0	-1.777	32.432	26.093	.0114	1437.50
7.0	-1.778	32.432	26.093	.0133	1437.52
8.0	-1.778	32.436	26.096	.0153	1437.54
9.0	-1.778	32.438	26.097	.0172	1437.56
10.0	-1.776	32.436	26.096	.0191	1437.58
11.0	-1.778	32.437	26.097	.0210	1437.59
12.0	-1.778	32.439	26.098	.0229	1437.61
13.0	-1.777	32.438	26.098	.0248	1437.63
14.0	-1.778	32.438	26.098	.0267	1437.64
15.0	-1.777	32.438	26.098	.0286	1437.66
16.0	-1.774	32.439	26.098	.0305	1437.69
17.0	-1.776	32.441	26.100	.0324	1437.70
18.0	-1.777	32.443	26.102	.0343	1437.72
19.0	-1.778	32.445	26.103	.0362	1437.73
20.0	-1.776	32.445	26.103	.0381	1437.76
21.0	-1.777	32.447	26.104	.0400	1437.77
22.0	-1.779	32.450	26.107	.0419	1437.78
23.0	-1.778	32.450	26.108	.0438	1437.81
24.0	-1.776	32.452	26.109	.0457	1437.83
25.0	-1.776	32.452	26.109	.0475	1437.85
27.5	-1.770	32.456	26.112	.0523	1437.92
30.0	-1.773	32.460	26.116	.0570	1437.95
32.5	-1.778	32.463	26.118	.0617	1437.98
35.0	-1.776	32.464	26.118	.0664	1438.02
37.5	-1.778	32.469	26.123	.0711	1438.07
40.0	-1.771	32.473	26.126	.0758	1438.15
42.5	-1.767	32.477	26.129	.0805	1438.21
45.0	-1.746	32.482	26.133	.0651	1438.36
47.5	-1.775	32.498	26.146	.0898	1438.29
50.0	-1.781	32.506	26.153	.0944	1438.31
55.0	-1.780	32.509	26.155	.1036	1438.40
60.0	-1.748	32.526	26.169	.1128	1438.66
65.0	-1.633	32.589	26.217	.1219	1439.37
70.0	-1.641	32.631	26.251	.1308	1439.48
75.0	-1.635	32.667	26.280	.1394	1439.64
80.0	-1.624	32.715	26.319	.1480	1439.84
85.0	-1.608	32.755	26.351	.1563	1440.05
90.0	-1.594	32.790	26.379	.1645	1440.25
95.0	-1.571	32.850	26.427	.1726	1440.53
100.0	-1.553	32.912	26.477	.1804	1440.78
105.0	-1.533	32.951	26.509	.1880	1441.01
110.0	-1.514	33.009	26.555	.1954	1441.27

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.492	33.070	26.604	.2026	1441.54
120.0	-1.467	33.142	26.662	.2095	1441.84
125.0	-1.438	33.201	26.709	.2162	1442.14
130.0	-1.402	33.276	26.768	.2226	1442.50
135.0	-1.380	33.352	26.830	.2288	1442.79
140.0	-1.335	33.427	26.890	.2346	1443.19
145.0	-1.285	33.488	26.937	.2403	1443.59
150.0	-1.247	33.548	26.985	.2456	1443.94
155.0	-1.182	33.625	27.045	.2508	1444.43
160.0	-1.131	33.703	27.107	.2556	1444.86
165.0	-1.044	33.781	27.167	.2602	1445.46
170.0	-.951	33.854	27.223	.2644	1446.08
175.0	-.909	33.917	27.272	.2685	1446.44
180.0	-.818	34.003	27.338	.2722	1447.07
185.0	-.757	34.057	27.379	.2757	1447.51
190.0	-.709	34.097	27.410	.2791	1447.87
195.0	-.650	34.149	27.450	.2822	1448.30
200.0	-.581	34.200	27.488	.2852	1448.78
210.0	-.457	34.298	27.562	.2907	1449.65
220.0	-.348	34.378	27.622	.2955	1450.43
230.0	-.262	34.447	27.673	.2998	1451.09
240.0	-.190	34.497	27.710	.3037	1451.65
250.0	-.138	34.546	27.747	.3072	1452.12
260.0	-.071	34.591	27.780	.3105	1452.65
270.0	-.010	34.633	27.810	.3134	1453.15
280.0	.034	34.662	27.831	.3160	1453.56
290.0	.080	34.698	27.858	.3185	1453.98
300.0	.119	34.722	27.875	.3208	1454.36
310.0	.153	34.745	27.892	.3229	1454.71
320.0	.186	34.764	27.905	.3249	1455.05
330.0	.208	34.777	27.915	.3267	1455.33
340.0	.232	34.794	27.927	.3285	1455.63
350.0	.246	34.804	27.934	.3301	1455.87
360.0	.261	34.813	27.941	.3318	1456.11
370.0	.277	34.821	27.946	.3333	1456.36
380.0	.292	34.826	27.950	.3348	1456.60
390.0	.305	34.835	27.956	.3363	1456.83
393.8	.310	34.836	27.957	.3368	1456.92

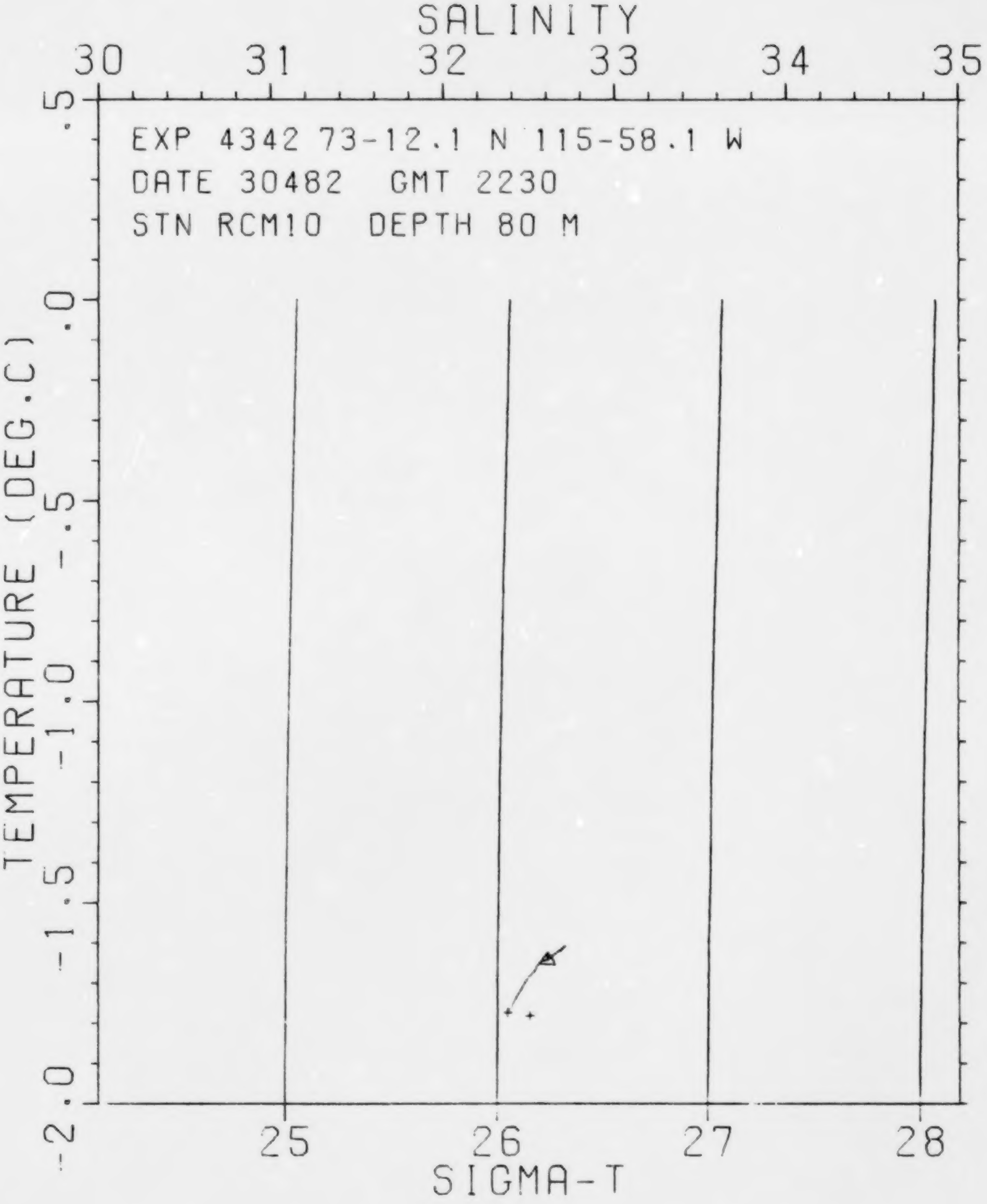

SALINITY
30
31
32
33
34
35
EXP 4341 74-20.1 N 114-20.5 W
DATE 30482 GMT 1959
STN CTD28 DEPTH 480 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

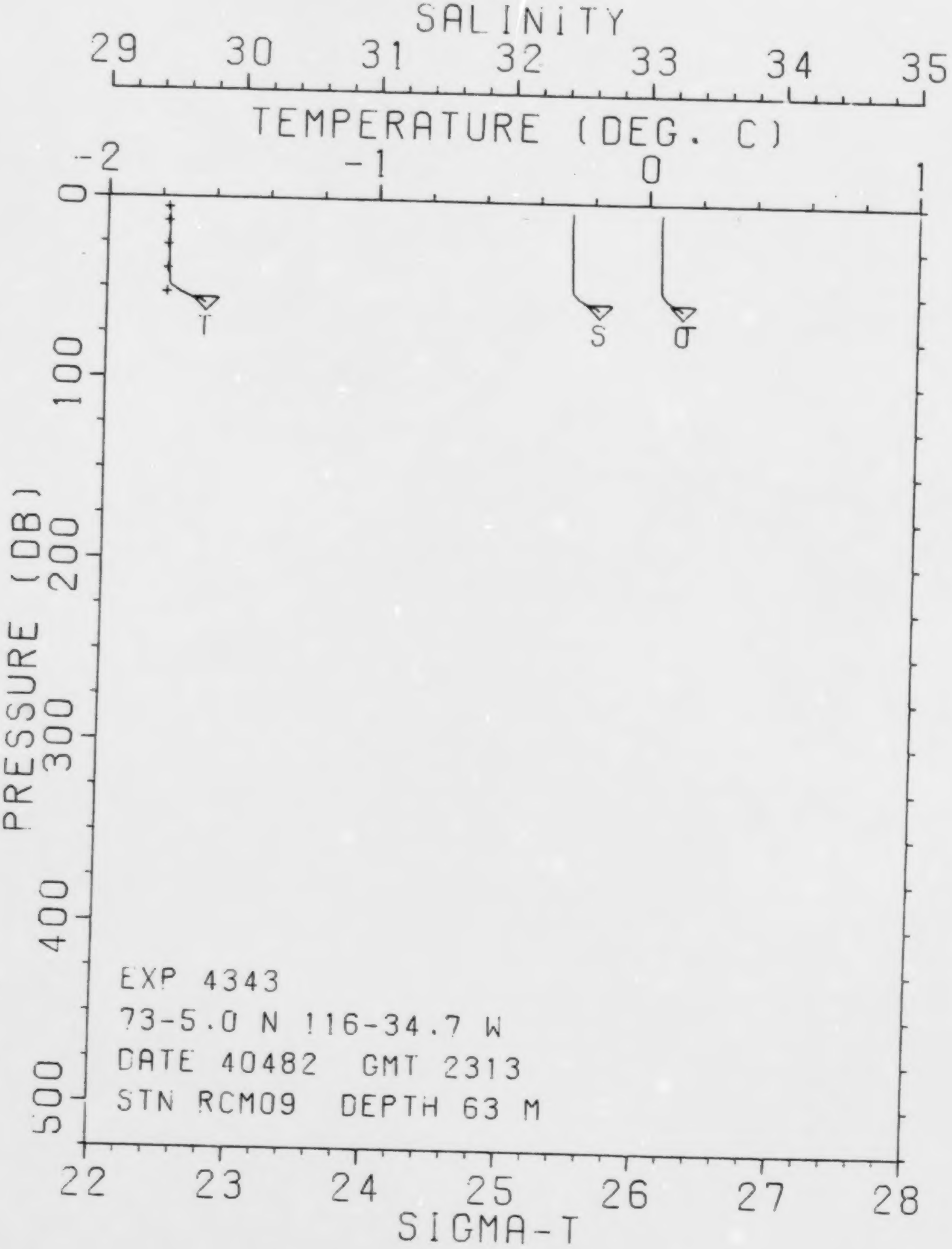

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4342
73-12.1 N 115-58.1 W
DATE 30482 GMT 2230
STN RCM10 DEPTH 80 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION RCM10 EXPERIMENT NO. 4342 DATE 030482 GMT 2230
LAT. 73-12.1 N LONG. 115-58.1 W
WATER DEPTH 80.2 M ICE THICKNESS 2.1 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
6.3	-1.765	32.376	26.047	.0122	1437.49
7.0	-1.765	32.375	26.046	.0136	1437.50
8.0	-1.765	32.375	26.046	.0156	1437.51
9.0	-1.765	32.374	26.045	.0176	1437.53
10.0	-1.765	32.376	26.047	.0195	1437.55
11.0	-1.764	32.376	26.047	.0215	1437.57
12.0	-1.764	32.377	26.047	.0234	1437.59
13.0	-1.763	32.380	26.050	.0254	1437.61
14.0	-1.763	32.382	26.051	.0273	1437.63
15.0	-1.764	32.384	26.053	.0293	1437.65
16.0	-1.764	32.387	26.056	.0312	1437.67
17.0	-1.765	32.389	26.058	.0331	1437.68
18.0	-1.765	32.390	26.058	.0351	1437.70
19.0	-1.765	32.392	26.059	.0370	1437.72
20.0	-1.765	32.391	26.059	.0390	1437.73
21.0	-1.764	32.390	26.058	.0409	1437.75
22.0	-1.764	32.391	26.059	.0428	1437.77
23.0	-1.764	32.393	26.061	.0448	1437.79
24.0	-1.763	32.392	26.060	.0467	1437.81
25.0	-1.765	32.394	26.061	.0486	1437.82
27.5	-1.764	32.393	26.061	.0535	1437.86
30.0	-1.763	32.395	26.062	.0583	1437.91
32.5	-1.763	32.395	26.062	.0632	1437.95
35.0	-1.765	32.397	26.064	.0680	1437.99
37.5	-1.763	32.398	26.065	.0728	1438.04
40.0	-1.756	32.408	26.072	.0777	1438.13
42.5	-1.730	32.438	26.096	.0824	1438.34
45.0	-1.675	32.524	26.165	.0871	1438.76
47.5	-1.643	32.588	26.217	.0917	1439.04
50.0	-1.643	32.614	26.237	.0961	1439.12
55.0	-1.621	32.672	26.284	.1049	1439.39
56.0	-1.619	32.681	26.291	.1066	1439.42
57.0	-1.619	32.686	26.295	.1083	1439.45
58.0	-1.618	32.687	26.296	.1100	1439.47
59.0	-1.618	32.691	26.299	.1117	1439.49
60.0	-1.617	32.694	26.302	.1134	1439.52
61.0	-1.616	32.694	26.302	.1151	1439.54
62.0	-1.616	32.697	26.304	.1168	1439.56
63.0	-1.616	32.697	26.305	.1185	1439.57
64.0	-1.617	32.700	26.307	.1202	1439.59
65.0	-1.614	32.699	26.306	.1219	1439.62
66.0	-1.613	32.702	26.308	.1236	1439.65
67.0	-1.612	32.702	26.309	.1253	1439.67

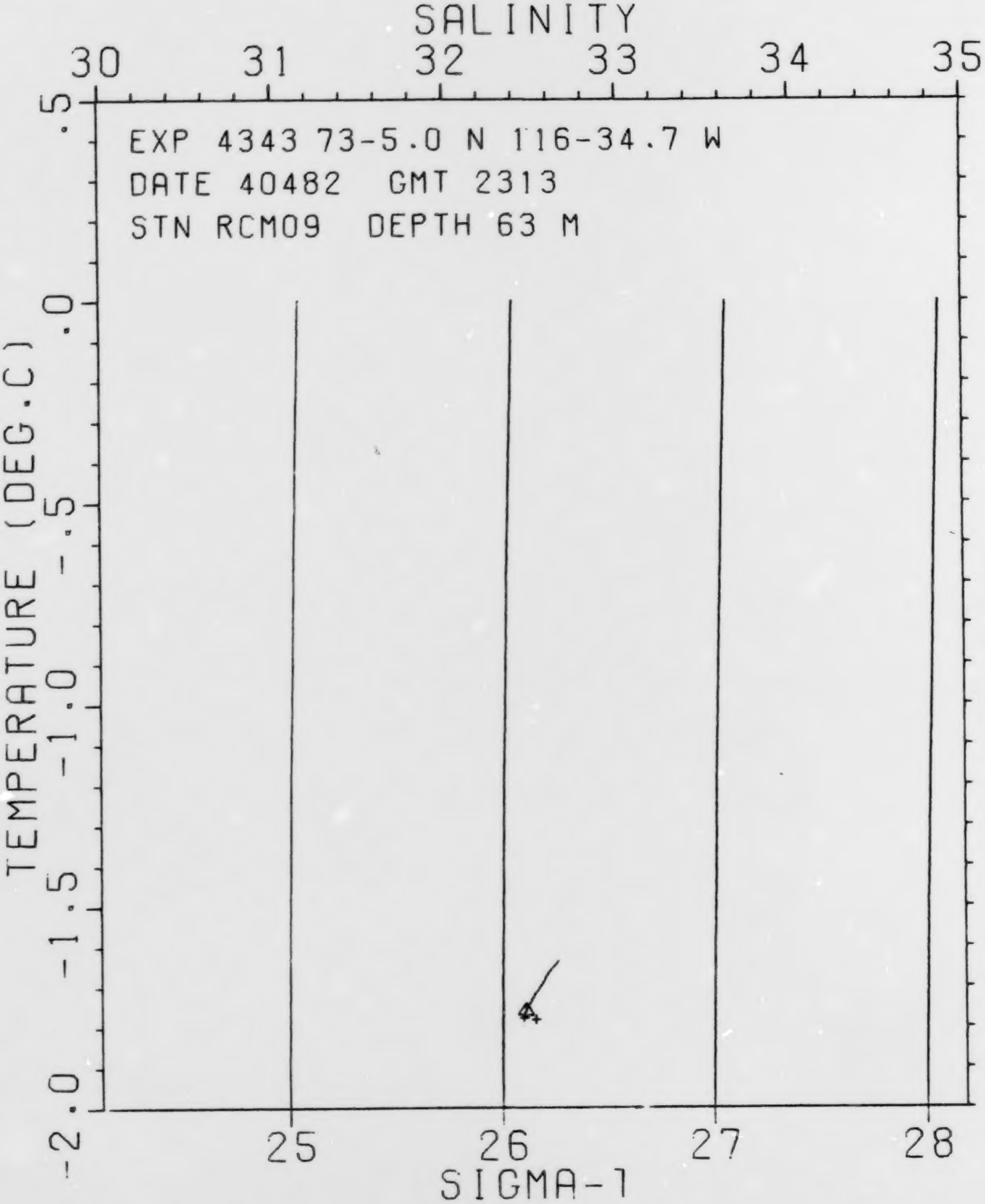
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
68.0	-1.612	32.704	26.310	.1270	1439.69
69.0	-1.612	32.704	26.310	.1287	1439.70
70.0	-1.612	32.705	26.310	.1304	1439.72
71.0	-1.611	32.705	26.311	.1321	1439.74
72.0	-1.609	32.711	26.315	.1338	1439.77
73.0	-1.608	32.711	26.316	.1355	1439.80
74.0	-1.608	32.713	26.317	.1372	1439.81
75.0	-1.607	32.716	26.320	.1389	1439.84
76.0	-1.607	32.718	26.321	.1406	1439.86
76.4	-1.607	32.718	26.321	.1412	1439.86

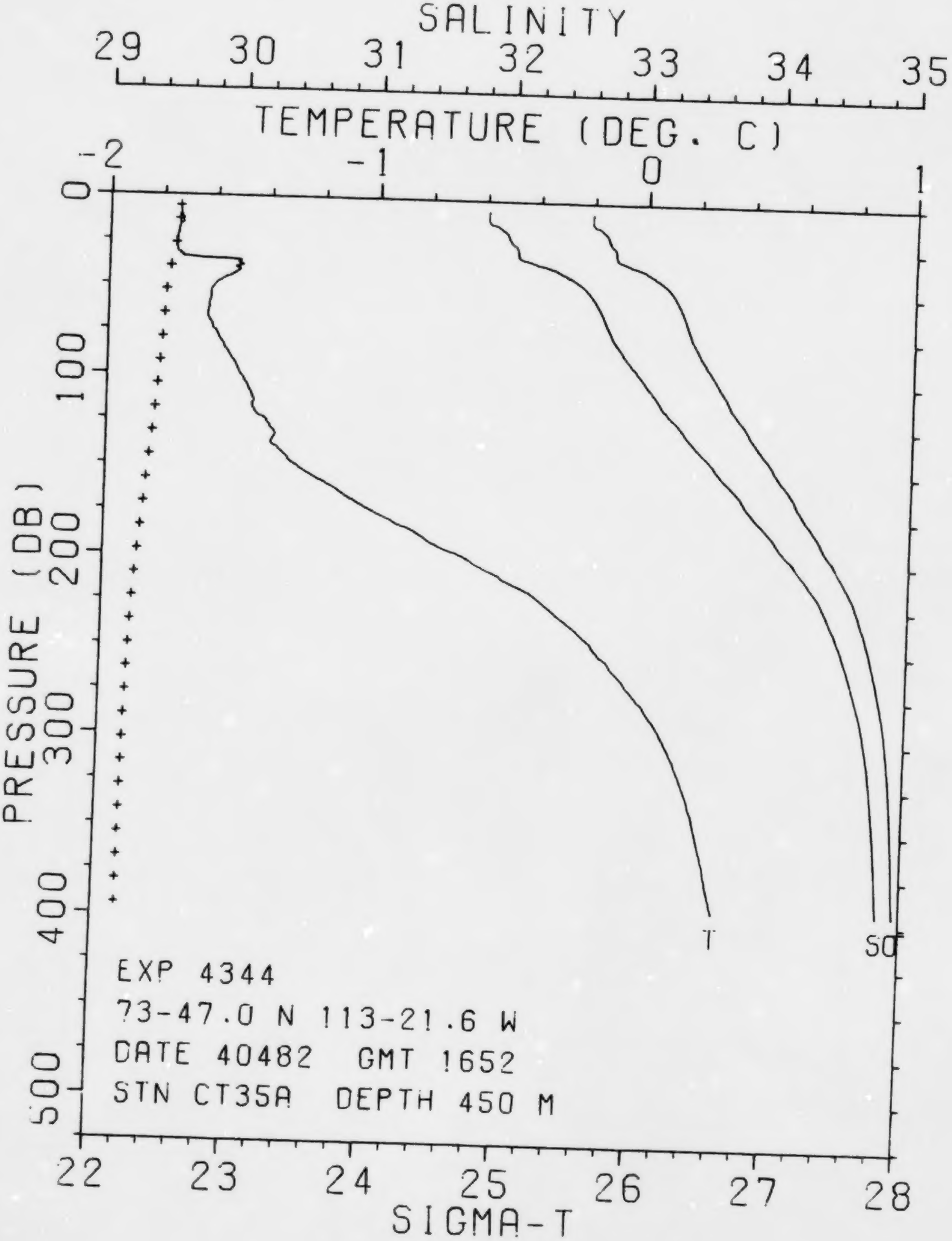

SALINITY
30
31
32
33
34
35
EXP 4342 73-12.1 N 115-58.1 W
DATE 30482 GMT 2230
STN RCM10 DEPTH 80 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4343
73-5.0 N 116-34.7 W
DATE 40482 GMT 2313
STN RCM09 DEPTH 63 M
22
23
24
25
26
27
28
SIGMA-T

```
CRUISE 015-82-021  WESTERN NORTH-WEST PASSAGE
STATION RCM09  EXPERIMENT NO.   4343   DATE 040482 GMT 2313
LAT. 73-05.0 N   LONG. 116-34.7 W
WATER DEPTH   63.0 M   ICE THICKNESS 2.1 M

PRESSURE    TEMP     SALINITY   SIGMAT     DHA      SOUND
 (DBARS)  (DEG.C)                        (DYN M)    (M/S)

    5.5    -1.772    32.437    26.097    .0104    1437.53
    6.0    -1.771    32.436    26.096    .0114    1437.54
    7.0    -1.771    32.437    26.096    .0133    1437.56
    8.0    -1.771    32.436    26.096    .0152    1437.57
    9.0    -1.770    32.435    26.095    .0171    1437.59
   10.0    -1.771    32.435    26.095    .0190    1437.61
   11.0    -1.771    32.436    26.095    .0209    1437.62
   12.0    -1.770    32.434    26.094    .0228    1437.64
   13.0    -1.769    32.433    26.094    .0248    1437.66
   14.0    -1.771    32.436    26.095    .0267    1437.67
   15.0    -1.770    32.434    26.094    .0286    1437.69
   16.0    -1.772    32.437    26.096    .0305    1437.70
   17.0    -1.770    32.434    26.094    .0324    1437.72
   18.0    -1.770    32.435    26.095    .0343    1437.74
   19.0    -1.770    32.436    26.096    .0362    1437.75
   20.0    -1.771    32.436    26.096    .0381    1437.77
   21.0    -1.771    32.437    26.096    .0400    1437.79
   22.0    -1.771    32.438    26.098    .0419    1437.80
   23.0    -1.772    32.439    26.098    .0438    1437.82
   24.0    -1.772    32.439    26.098    .0457    1437.84
   25.0    -1.771    32.439    26.098    .0476    1437.85
   27.5    -1.772    32.441    26.099    .0524    1437.89
   30.0    -1.772    32.440    26.099    .0571    1437.93
   32.5    -1.771    32.439    26.098    .0619    1437.98
   35.0    -1.771    32.440    26.099    .0666    1438.02
   37.0    -1.771    32.441    26.099    .0704    1438.05
   38.0    -1.772    32.441    26.100    .0723    1438.07
   39.0    -1.772    32.441    26.100    .0742    1438.08
   40.0    -1.772    32.442    26.101    .0761    1438.10
   41.0    -1.771    32.441    26.100    .0780    1438.12
   42.0    -1.771    32.441    26.100    .0799    1438.14
   43.0    -1.770    32.441    26.100    .0818    1438.16
   44.0    -1.769    32.444    26.102    .0837    1438.18
   45.0    -1.769    32.443    26.101    .0856    1438.20
   46.0    -1.767    32.443    26.101    .0875    1438.22
   47.0    -1.768    32.443    26.102    .0894    1438.23
   48.0    -1.767    32.444    26.102    .0913    1438.26
   49.0    -1.766    32.446    26.103    .0932    1438.28
   50.0    -1.760    32.451    26.108    .0951    1438.33
   51.0    -1.746    32.466    26.119    .0969    1438.43
   52.0    -1.736    32.477    26.129    .0988    1438.52
   53.0    -1.729    32.490    26.139    .1007    1438.59
   54.0    -1.711    32.512    26.156    .1025    1438.72
```

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
55.0	-1.699	32.537	26.176	.1044	1438.82
56.0	-1.683	32.560	26.195	.1062	1438.95
57.0	-1.653	32.604	26.229	.1080	1439.17
58.0	-1.642	32.629	26.250	.1097	1439.27
58.9	-1.628	32.655	26.270	.1114	1439.39


SALINITY
30
31
32
33
34
35
EXP 4343 73-5.0 N 116-34.7 W
DATE 40482 GMT 2313
STN RCM09 DEPTH 63 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
SIGMA-1
25
26
27
28
4

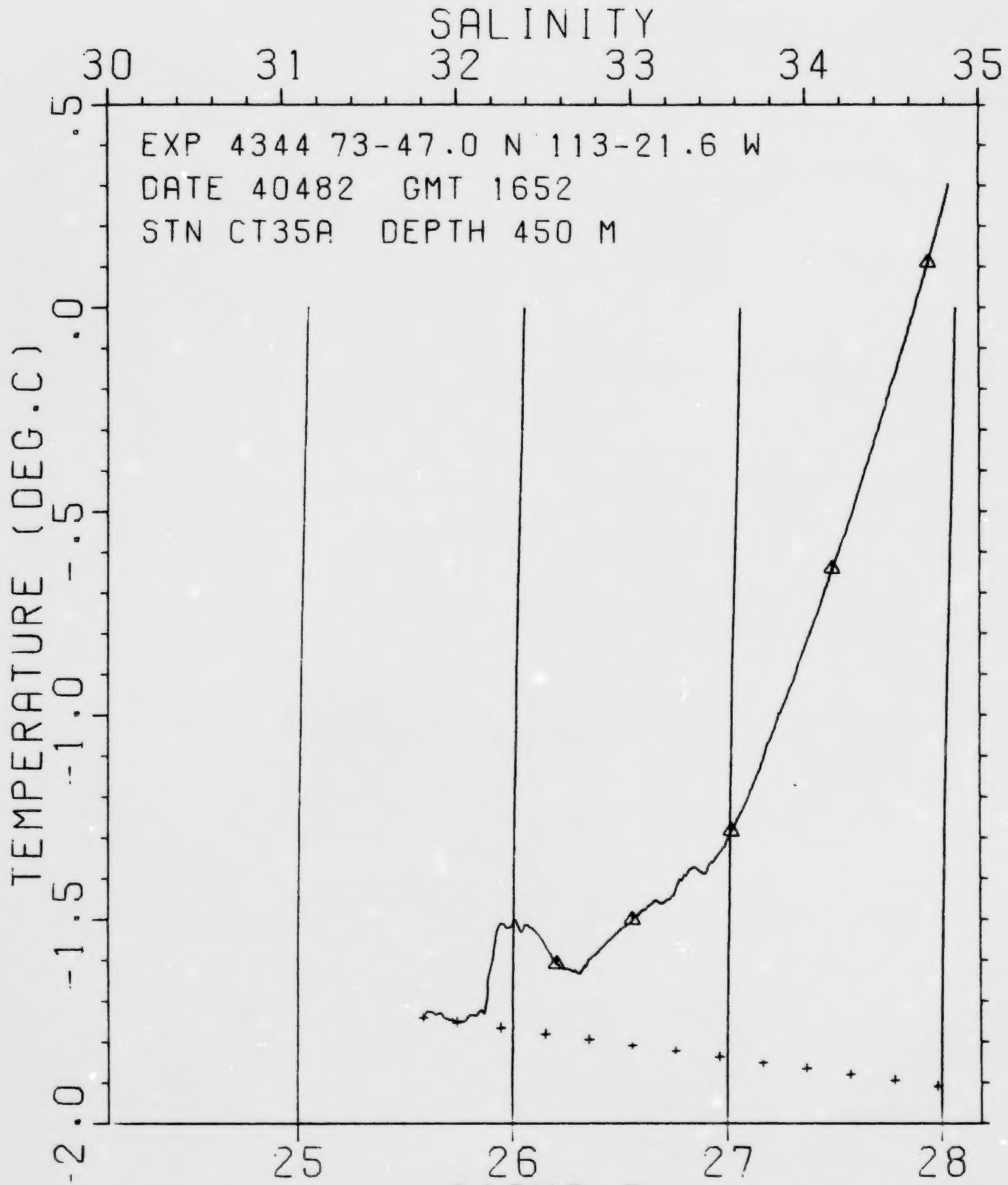


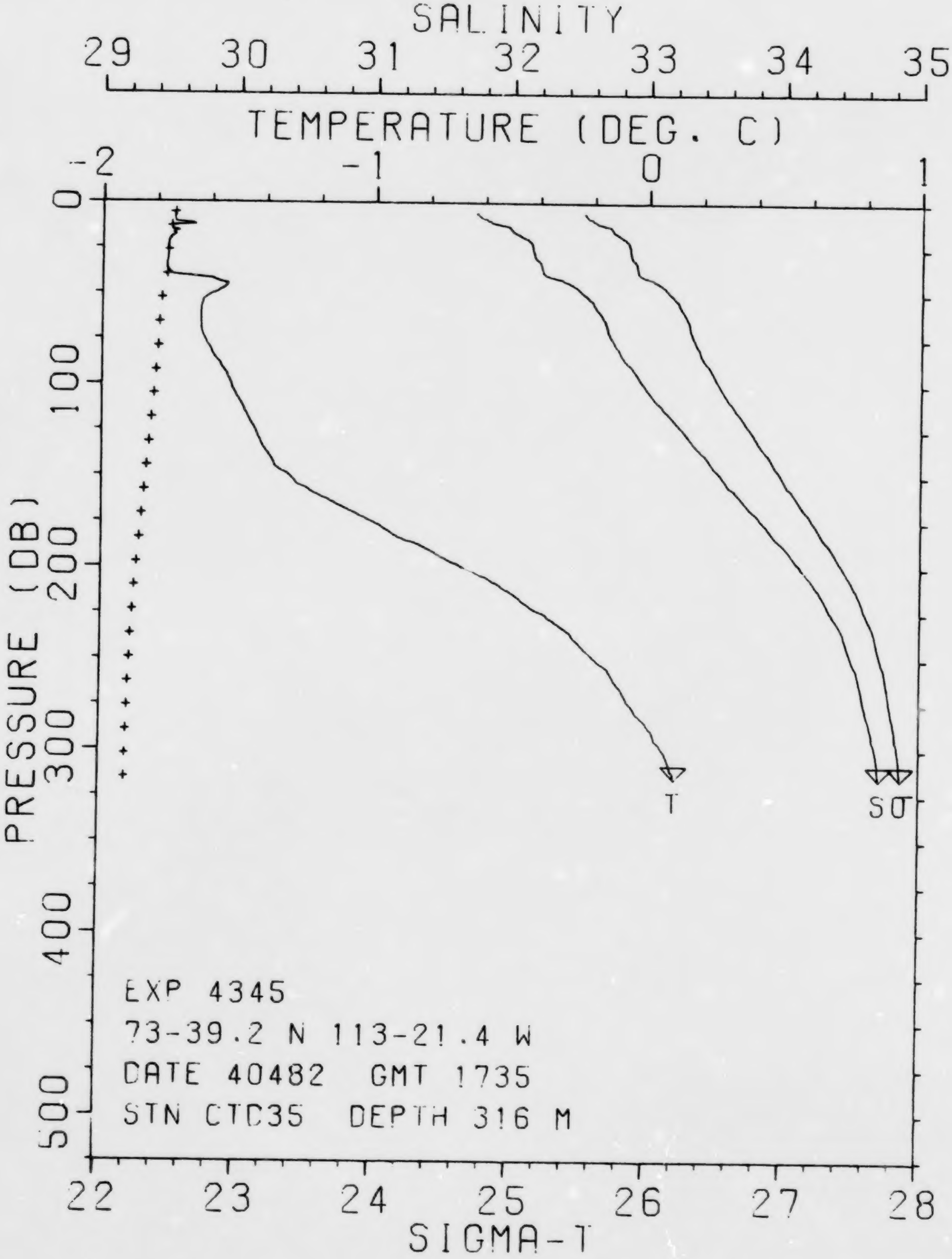
EXP 4344
73-47.0 N 113-21.6 W
DATE 40482 GMT 1652
STN CT35A DEPTH 450 M

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CT35A EXPERIMENT NO. 4344 DATE 040482 GMT 1652
LAT. 73-47.0 N LONG. 113-21.6 W
WATER DEPTH 450.0 M ICE THICKNESS 1.9 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.9	-1.739	31.810	25.586	.0141	1436.81
6.0	-1.739	31.810	25.586	.0143	1436.74
7.0	-1.740	31.810	25.586	.0167	1436.82
8.0	-1.739	31.810	25.586	.0191	1436.84
9.0	-1.738	31.809	25.586	.0215	1436.86
10.0	-1.738	31.809	25.585	.0239	1436.88
11.0	-1.738	31.810	25.586	.0263	1436.90
12.0	-1.732	31.814	25.589	.0287	1436.95
13.0	-1.724	31.830	25.603	.0311	1437.03
14.0	-1.733	31.882	25.644	.0334	1437.07
15.0	-1.729	31.903	25.662	.0357	1437.14
16.0	-1.733	31.919	25.675	.0380	1437.15
17.0	-1.743	31.936	25.689	.0403	1437.15
18.0	-1.745	31.954	25.703	.0426	1437.18
19.0	-1.746	31.957	25.706	.0449	1437.20
20.0	-1.746	31.964	25.711	.0472	1437.22
21.0	-1.745	31.970	25.716	.0494	1437.25
22.0	-1.747	31.977	25.722	.0517	1437.27
23.0	-1.748	31.982	25.726	.0539	1437.29
24.0	-1.749	31.997	25.738	.0562	1437.32
25.0	-1.750	32.022	25.759	.0584	1437.37
27.5	-1.749	32.031	25.766	.0640	1437.42
30.0	-1.751	32.039	25.773	.0695	1437.47
32.5	-1.733	32.080	25.805	.0750	1437.65
35.0	-1.654	32.179	25.885	.0803	1438.21
37.5	-1.518	32.313	25.990	.0854	1439.08
40.0	-1.529	32.376	26.042	.0904	1439.16
42.5	-1.528	32.447	26.099	.0952	1439.30
45.0	-1.557	32.498	26.141	.0999	1439.28
47.5	-1.587	32.538	26.174	.1045	1439.23
50.0	-1.609	32.571	26.202	.1090	1439.22
55.0	-1.621	32.621	26.242	.1179	1439.31
60.0	-1.626	32.658	26.273	.1267	1439.42
65.0	-1.629	32.690	26.299	.1353	1439.53
70.0	-1.622	32.720	26.323	.1438	1439.69
75.0	-1.603	32.748	26.346	.1521	1439.90
80.0	-1.582	32.797	26.384	.1603	1440.15
85.0	-1.564	32.839	26.419	.1684	1440.38
90.0	-1.541	32.894	26.462	.1762	1440.65
95.0	-1.520	32.950	26.507	.1838	1440.91
100.0	-1.500	33.003	26.550	.1913	1441.16
105.0	-1.480	33.059	26.595	.1985	1441.41
110.0	-1.463	33.106	26.632	.2056	1441.64

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.456	33.151	26.669	.2124	1441.82
120.0	-1.451	33.214	26.720	.2191	1442.02
125.0	-1.400	33.278	26.770	.2255	1442.43
130.0	-1.380	33.331	26.813	.2317	1442.68
135.0	-1.383	33.387	26.858	.2376	1442.83
140.0	-1.359	33.452	26.910	.2434	1443.11
145.0	-1.324	33.521	26.966	.2489	1443.46
150.0	-1.286	33.571	27.005	.2541	1443.79
155.0	-1.233	33.637	27.056	.2592	1444.21
160.0	-1.169	33.701	27.106	.2640	1444.68
165.0	-1.115	33.753	27.147	.2686	1445.09
170.0	-1.057	33.803	27.186	.2730	1445.51
175.0	-.993	33.857	27.227	.2772	1445.97
180.0	-.925	33.924	27.279	.2812	1446.47
185.0	-.846	33.987	27.326	.2850	1447.00
190.0	-.795	34.033	27.362	.2885	1447.38
195.0	-.725	34.092	27.407	.2919	1447.88
200.0	-.642	34.154	27.453	.2951	1448.43
210.0	-.517	34.256	27.531	.3009	1449.31
220.0	-.387	34.351	27.601	.3059	1450.21
230.0	-.305	34.413	27.648	.3104	1450.84
240.0	-.221	34.478	27.696	.3145	1451.48
250.0	-.155	34.525	27.731	.3182	1452.01
260.0	-.092	34.568	27.762	.3216	1452.52
270.0	-.036	34.609	27.793	.3246	1453.00
280.0	.027	34.650	27.823	.3274	1453.51
290.0	.073	34.684	27.847	.3300	1453.93
300.0	.110	34.709	27.865	.3323	1454.30
310.0	.147	34.732	27.882	.3345	1454.66
320.0	.171	34.755	27.899	.3366	1454.97
330.0	.199	34.767	27.907	.3385	1455.28
340.0	.222	34.780	27.916	.3404	1455.56
350.0	.237	34.794	27.927	.3421	1455.81
360.0	.254	34.804	27.934	.3438	1456.07
370.0	.270	34.812	27.939	.3454	1456.31
380.0	.284	34.820	27.945	.3470	1456.55
390.0	.299	34.829	27.952	.3485	1456.80
394.2	.307	34.831	27.953	.3491	1456.90


SALINITY
30
31
32
33
34
35
EXP 4344 73-47.0 N 113-21.6 W
DATE 40482 GMT 1652
STN CT35A DEPTH 450 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

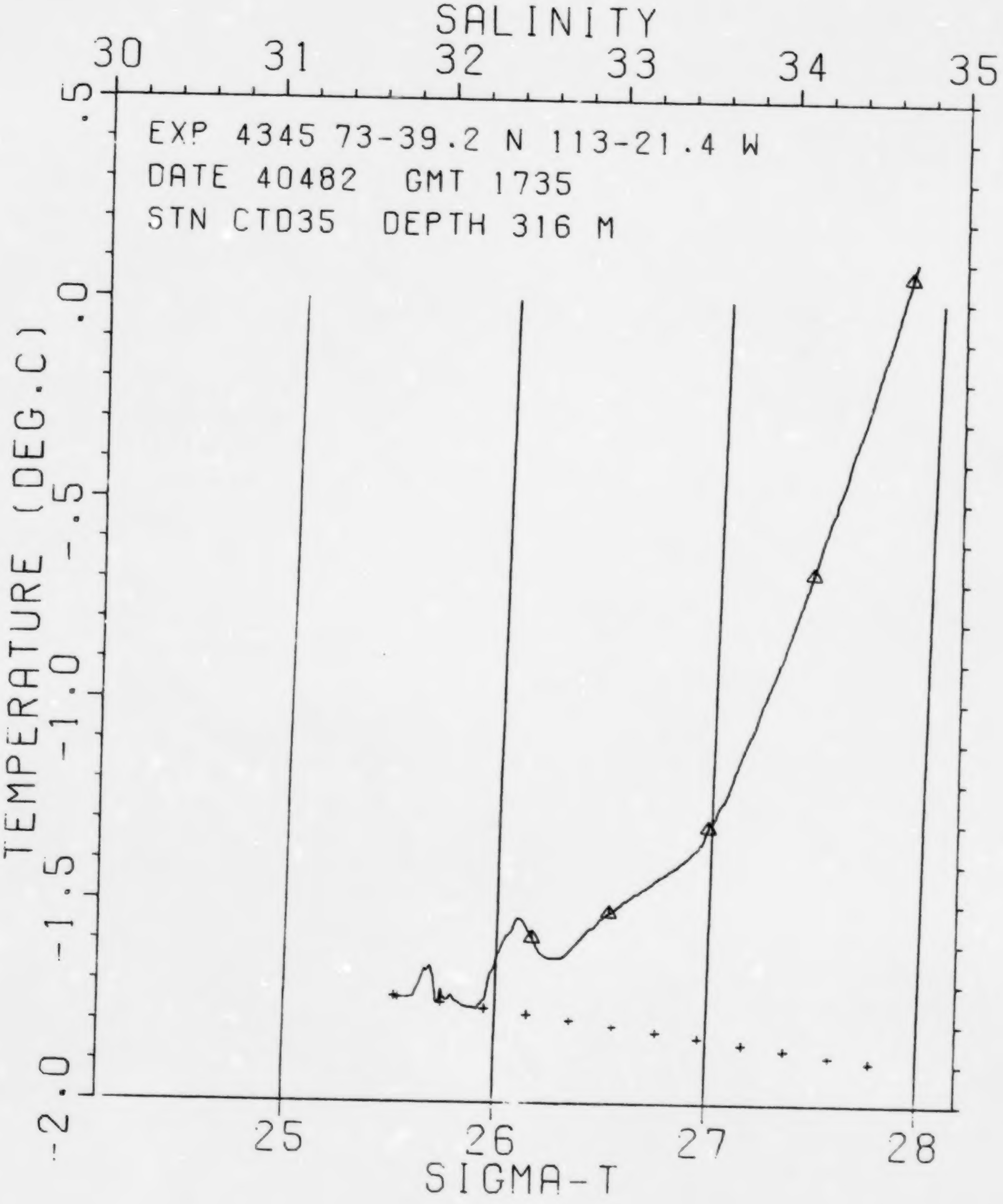

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4345
73-39.2 N 113-21.4 W
DATE 40482 GMT 1735
STN CTD35 DEPTH 316 M
22
23
24
25
26
27
28
SIGMA-T

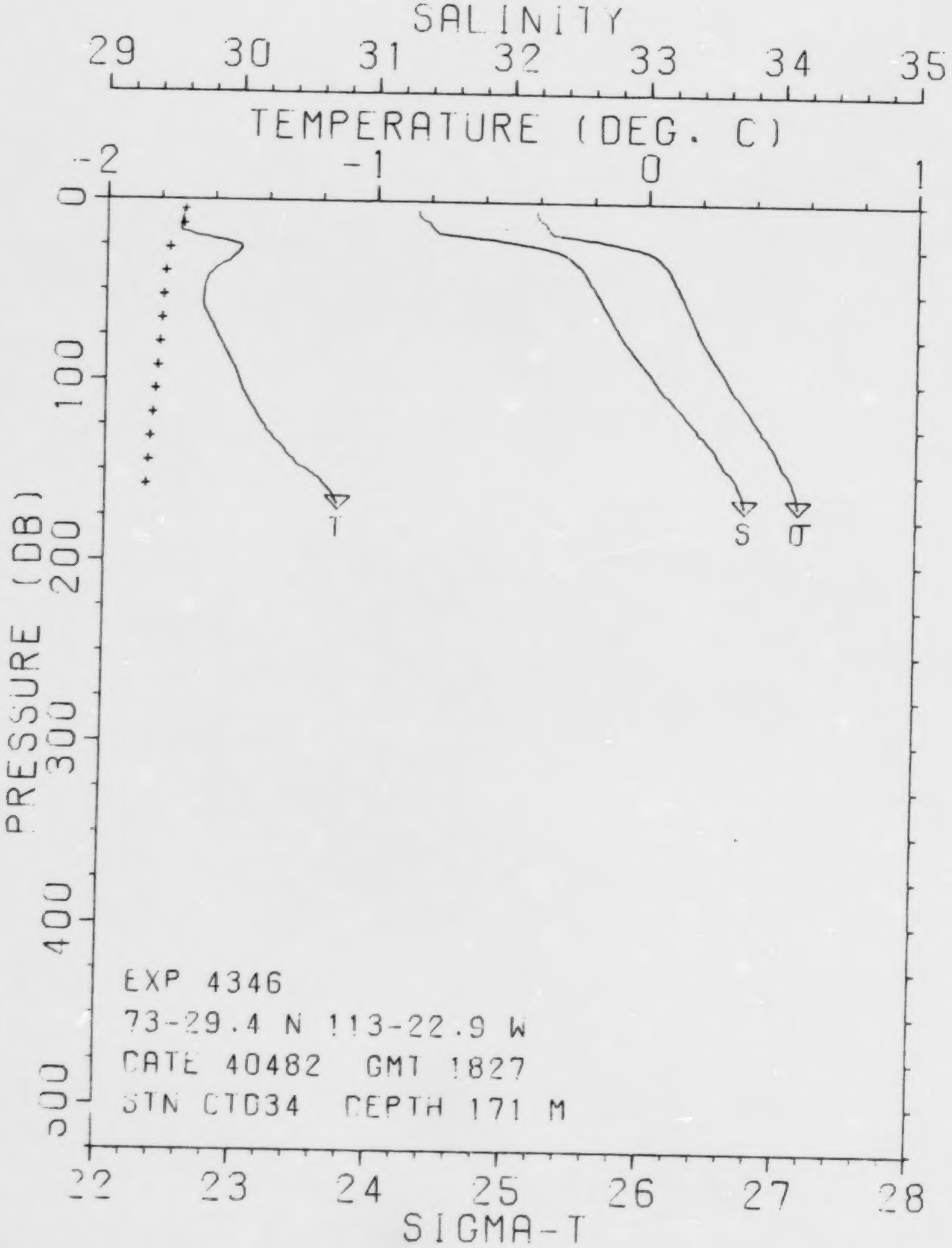
CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD35 EXPERIMENT NO. 4345 DATE 040482 GMT 1735
LAT. 73-39.2 N LONG. 113-21.4 W
WATER DEPTH 315.8 M ICE THICKNESS 2.3 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.740	31.730	25.522	.0136	1436.69
6.0	-1.739	31.742	25.531	.0149	1436.71
7.0	-1.738	31.753	25.540	.0173	1436.75
8.0	-1.739	31.764	25.549	.0198	1436.78
9.0	-1.739	31.808	25.585	.0222	1436.86
10.0	-1.736	31.833	25.605	.0246	1436.92
11.0	-1.736	31.847	25.617	.0269	1436.96
12.0	-1.677	31.920	25.674	.0293	1437.36
13.0	-1.751	31.975	25.720	.0316	1437.10
14.0	-1.749	31.983	25.727	.0338	1437.14
15.0	-1.748	31.993	25.735	.0361	1437.17
16.0	-1.717	32.002	25.742	.0383	1437.35
17.0	-1.745	32.035	25.769	.0405	1437.28
18.0	-1.734	32.060	25.789	.0427	1437.38
19.0	-1.746	32.086	25.810	.0449	1437.38
20.0	-1.756	32.116	25.835	.0471	1437.39
21.0	-1.759	32.126	25.843	.0492	1437.41
22.0	-1.759	32.139	25.854	.0514	1437.44
23.0	-1.761	32.142	25.856	.0535	1437.45
24.0	-1.761	32.144	25.858	.0556	1437.47
25.0	-1.762	32.150	25.863	.0578	1437.49
27.5	-1.763	32.155	25.867	.0631	1437.54
30.0	-1.762	32.161	25.872	.0684	1437.59
32.5	-1.764	32.200	25.904	.0736	1437.68
35.0	-1.765	32.213	25.915	.0788	1437.73
37.5	-1.761	32.219	25.919	.0840	1437.80
40.0	-1.743	32.256	25.949	.0892	1437.98
42.5	-1.589	32.373	26.040	.0942	1438.91
45.0	-1.539	32.440	26.093	.0990	1439.28
47.5	-1.555	32.483	26.129	.1037	1439.31
50.0	-1.589	32.525	26.164	.1083	1439.25
55.0	-1.634	32.596	26.223	.1174	1439.22
60.0	-1.640	32.641	26.260	.1262	1439.34
65.0	-1.639	32.686	26.296	.1348	1439.48
70.0	-1.637	32.701	26.308	.1433	1439.60
75.0	-1.626	32.735	26.335	.1516	1439.76
80.0	-1.605	32.779	26.371	.1601	1440.02
85.0	-1.589	32.815	26.399	.1682	1440.23
90.0	-1.564	32.877	26.449	.1761	1440.52
95.0	-1.540	32.923	26.486	.1839	1440.76
100.0	-1.525	32.972	26.525	.1914	1441.00
105.0	-1.510	33.021	26.565	.1988	1441.22
110.0	-1.492	33.085	26.616	.2059	1441.48

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.476	33.144	26.663	.2129	1441.72
120.0	-1.456	33.202	26.710	.2196	1441.97
125.0	-1.437	33.257	26.755	.2260	1442.23
130.0	-1.423	33.312	26.799	.2323	1442.45
135.0	-1.408	33.371	26.846	.2383	1442.69
140.0	-1.382	33.438	26.900	.2441	1442.99
145.0	-1.364	33.481	26.934	.2497	1443.21
150.0	-1.312	33.542	26.982	.2551	1443.62
155.0	-1.279	33.588	27.019	.2602	1443.92
160.0	-1.212	33.664	27.077	.2652	1444.43
165.0	-1.146	33.719	27.120	.2699	1444.90
170.0	-1.077	33.792	27.177	.2744	1445.41
175.0	-1.008	33.846	27.218	.2787	1445.88
180.0	-.951	33.900	27.260	.2828	1446.31
185.0	-.892	33.960	27.307	.2866	1446.75
190.0	-.805	34.027	27.357	.2902	1447.33
195.0	-.743	34.076	27.394	.2937	1447.77
200.0	-.678	34.132	27.437	.2969	1448.23
210.0	-.540	34.235	27.515	.3028	1449.18
220.0	-.444	34.316	27.576	.3080	1449.90
230.0	-.336	34.399	27.638	.3127	1450.68
240.0	-.257	34.457	27.681	.3169	1451.28
250.0	-.190	34.503	27.715	.3207	1451.82
260.0	-.125	34.555	27.754	.3242	1452.36
270.0	-.079	34.584	27.775	.3274	1452.77
280.0	-.037	34.613	27.796	.3304	1453.17
290.0	.025	34.651	27.823	.3332	1453.67
291.0	.027	34.654	27.825	.3335	1453.69
292.0	.027	34.656	27.827	.3337	1453.71
293.0	.030	34.657	27.828	.3340	1453.74
294.0	.032	34.658	27.829	.3343	1453.78
295.0	.033	34.657	27.828	.3345	1453.79
296.0	.043	34.672	27.839	.3346	1453.88
297.0	.050	34.674	27.840	.3350	1453.93
298.0	.054	34.678	27.844	.3353	1453.97
299.0	.057	34.678	27.844	.3355	1454.00
300.0	.062	34.662	27.847	.3358	1454.04
301.0	.069	34.664	27.847	.3360	1454.09
302.0	.071	34.691	27.853	.3363	1454.13
303.0	.074	34.692	27.854	.3365	1454.16
304.0	.077	34.691	27.853	.3367	1454.19
305.0	.079	34.694	27.855	.3370	1454.22
306.0	.084	34.692	27.853	.3372	1454.25
307.0	.084	34.698	27.858	.3374	1454.28
308.0	.088	34.700	27.859	.3377	1454.32
309.0	.089	34.701	27.860	.3379	1454.34
310.0	.091	34.700	27.859	.3381	1454.36
311.0	.094	34.703	27.862	.3384	1454.40
312.0	.099	34.703	27.861	.3386	1454.43

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
312.0	.099	34.703	27.861	.3386	1454.43
313.0	.104	34.706	27.863	.3388	1454.48
314.0	.102	34.705	27.863	.3391	1454.49
315.0	.105	34.706	27.864	.3393	1454.52
315.4	.104	34.707	27.864	.3394	1454.52

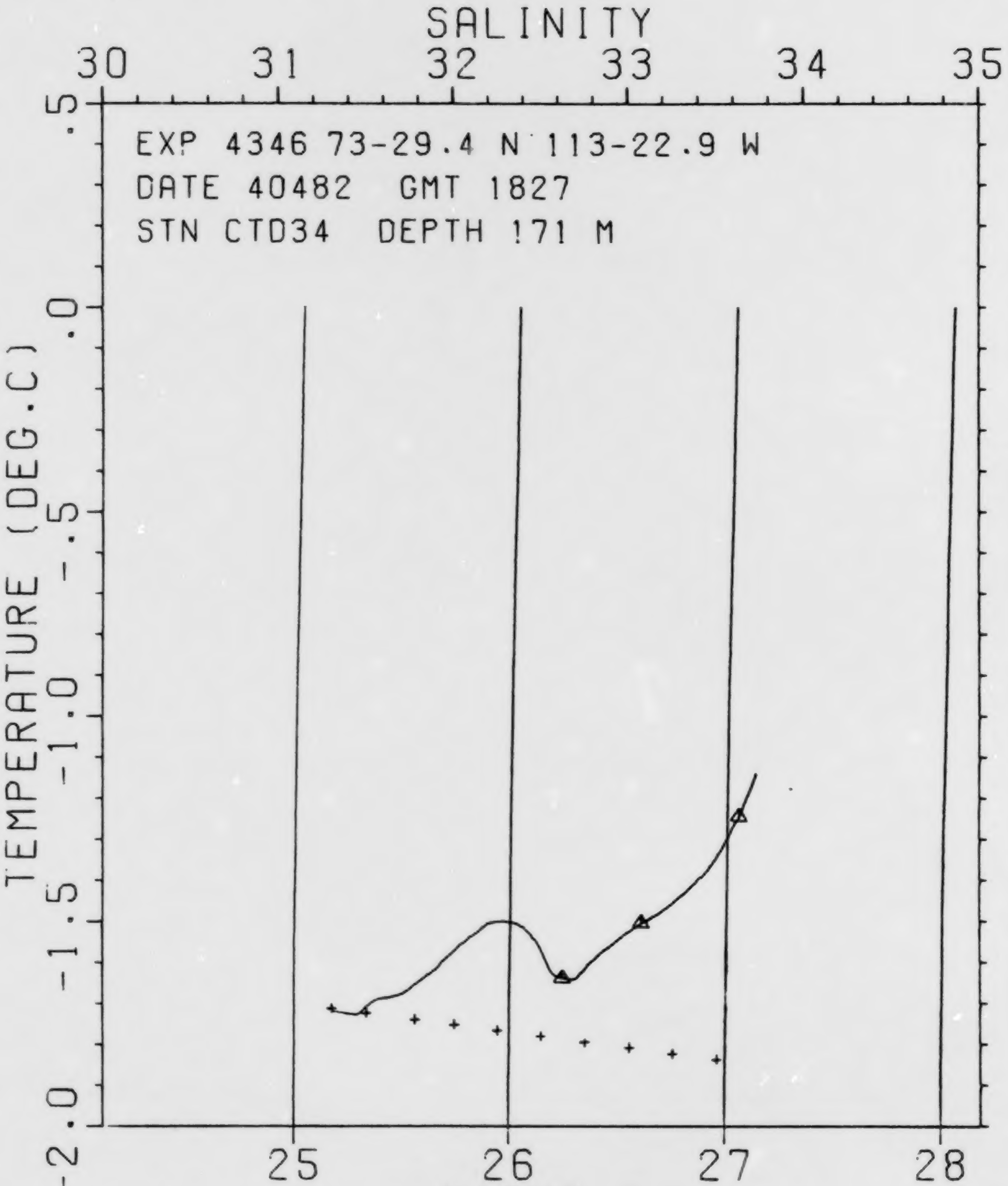

SALINITY
30
31
32
33
34
35
EXP 4345 73-39.2 N 113-21.4 W
DATE 40482 GMT 1735
STN CTD35 DEPTH 316 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

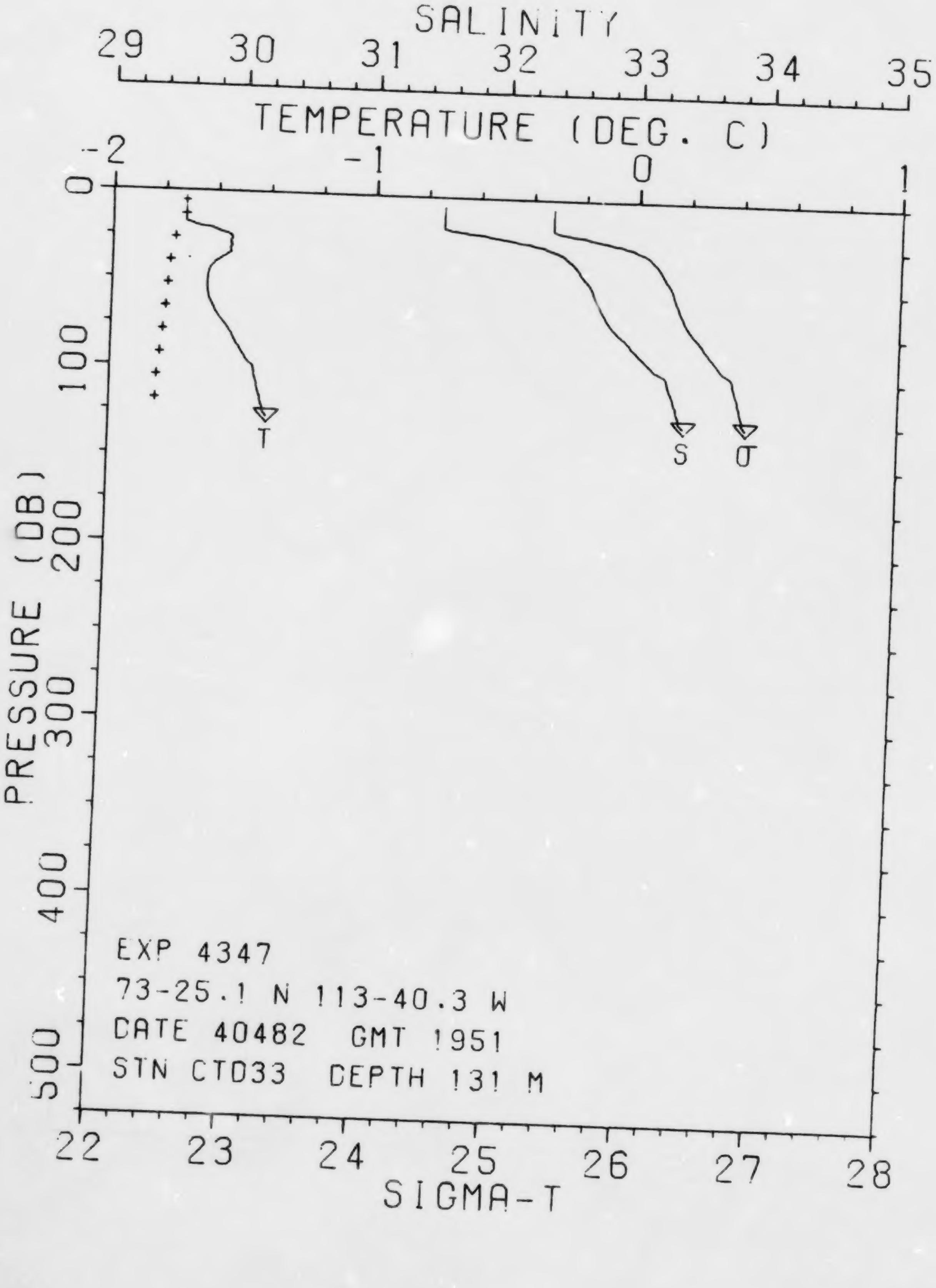

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4346
73-29.4 N 113-22.9 W
DATE 40482 GMT 1827
STN CTD34 DEPTH 171 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD34 EXPERIMENT NO. 4346 DATE 040482 GMT 1827
LAT. 73-29.4 N LONG. 113-22.9 W
WATER DEPTH 170.8 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.1	-1.718	31.305	25.176	.0142	1436.18
6.0	-1.718	31.304	25.175	.0167	1436.20
7.0	-1.718	31.308	25.178	.0195	1436.22
8.0	-1.717	31.309	25.179	.0222	1436.24
9.0	-1.720	31.325	25.192	.0250	1436.27
10.0	-1.721	31.342	25.206	.0278	1436.30
11.0	-1.723	31.371	25.229	.0305	1436.35
12.0	-1.725	31.395	25.249	.0332	1436.39
13.0	-1.725	31.398	25.251	.0359	1436.41
14.0	-1.726	31.408	25.260	.0386	1436.44
15.0	-1.727	31.420	25.269	.0413	1436.47
16.0	-1.727	31.434	25.281	.0440	1436.50
17.0	-1.728	31.447	25.291	.0467	1436.53
18.0	-1.708	31.499	25.333	.0494	1436.72
19.0	-1.681	31.668	25.470	.0519	1437.10
20.0	-1.656	31.774	25.555	.0544	1437.38
21.0	-1.618	31.893	25.651	.0567	1437.75
22.0	-1.577	31.989	25.728	.0590	1438.09
23.0	-1.550	32.065	25.790	.0613	1438.35
24.0	-1.524	32.144	25.853	.0634	1438.60
25.0	-1.501	32.227	25.920	.0655	1438.84
27.5	-1.503	32.345	26.015	.0706	1439.03
30.0	-1.519	32.413	26.072	.0755	1439.09
32.5	-1.540	32.454	26.105	.0802	1439.10
35.0	-1.565	32.497	26.140	.0849	1439.08
37.5	-1.592	32.526	26.165	.0896	1439.03
40.0	-1.608	32.543	26.179	.0941	1439.02
42.5	-1.625	32.565	26.197	.0987	1439.01
45.0	-1.631	32.579	26.208	.1032	1439.05
47.5	-1.637	32.609	26.233	.1076	1439.10
50.0	-1.638	32.626	26.247	.1120	1439.16
55.0	-1.641	32.664	26.278	.1207	1439.28
60.0	-1.638	32.703	26.310	.1293	1439.43
65.0	-1.619	32.742	26.341	.1377	1439.65
70.0	-1.600	32.781	26.372	.1460	1439.88
75.0	-1.587	32.816	26.400	.1541	1440.08
80.0	-1.567	32.866	26.440	.1621	1440.32
85.0	-1.551	32.920	26.484	.1698	1440.56
90.0	-1.531	32.974	26.527	.1774	1440.81
95.0	-1.515	33.030	26.572	.1847	1441.04
100.0	-1.503	33.074	26.607	.1918	1441.25
105.0	-1.491	33.121	26.645	.1988	1441.45
110.0	-1.474	33.194	26.704	.2056	1441.72

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.453	33.256	26.754	.2121	1441.98
120.0	-1.434	33.305	26.793	.2183	1442.22
125.0	-1.408	33.372	26.847	.2244	1442.52
130.0	-1.386	33.431	26.895	.2302	1442.79
135.0	-1.352	33.487	26.939	.2358	1443.11
140.0	-1.330	33.525	26.968	.2413	1443.35
145.0	-1.297	33.566	27.001	.2465	1443.65
146.0	-1.291	33.572	27.006	.2476	1443.70
147.0	-1.284	33.580	27.012	.2486	1443.76
148.0	-1.268	33.597	27.025	.2496	1443.88
149.0	-1.254	33.617	27.041	.2506	1443.99
150.0	-1.246	33.632	27.053	.2516	1444.06
151.0	-1.236	33.640	27.059	.2526	1444.14
152.0	-1.225	33.651	27.068	.2536	1444.22
153.0	-1.218	33.658	27.073	.2546	1444.28
154.0	-1.206	33.669	27.082	.2555	1444.37
155.0	-1.200	33.673	27.085	.2565	1444.42
156.0	-1.196	33.677	27.088	.2574	1444.46
157.0	-1.191	33.680	27.090	.2584	1444.50
158.0	-1.183	33.689	27.097	.2593	1444.57
159.0	-1.176	33.696	27.102	.2603	1444.63
160.0	-1.170	33.703	27.108	.2612	1444.68
161.0	-1.163	33.708	27.112	.2622	1444.74
162.0	-1.159	33.713	27.116	.2631	1444.78
163.0	-1.157	33.714	27.117	.2640	1444.80
164.0	-1.154	33.718	27.119	.2649	1444.84
165.0	-1.152	33.716	27.118	.2659	1444.87
166.0	-1.146	33.722	27.122	.2668	1444.92
167.0	-1.143	33.728	27.127	.2677	1444.96
168.0	-1.138	33.731	27.130	.2686	1445.00

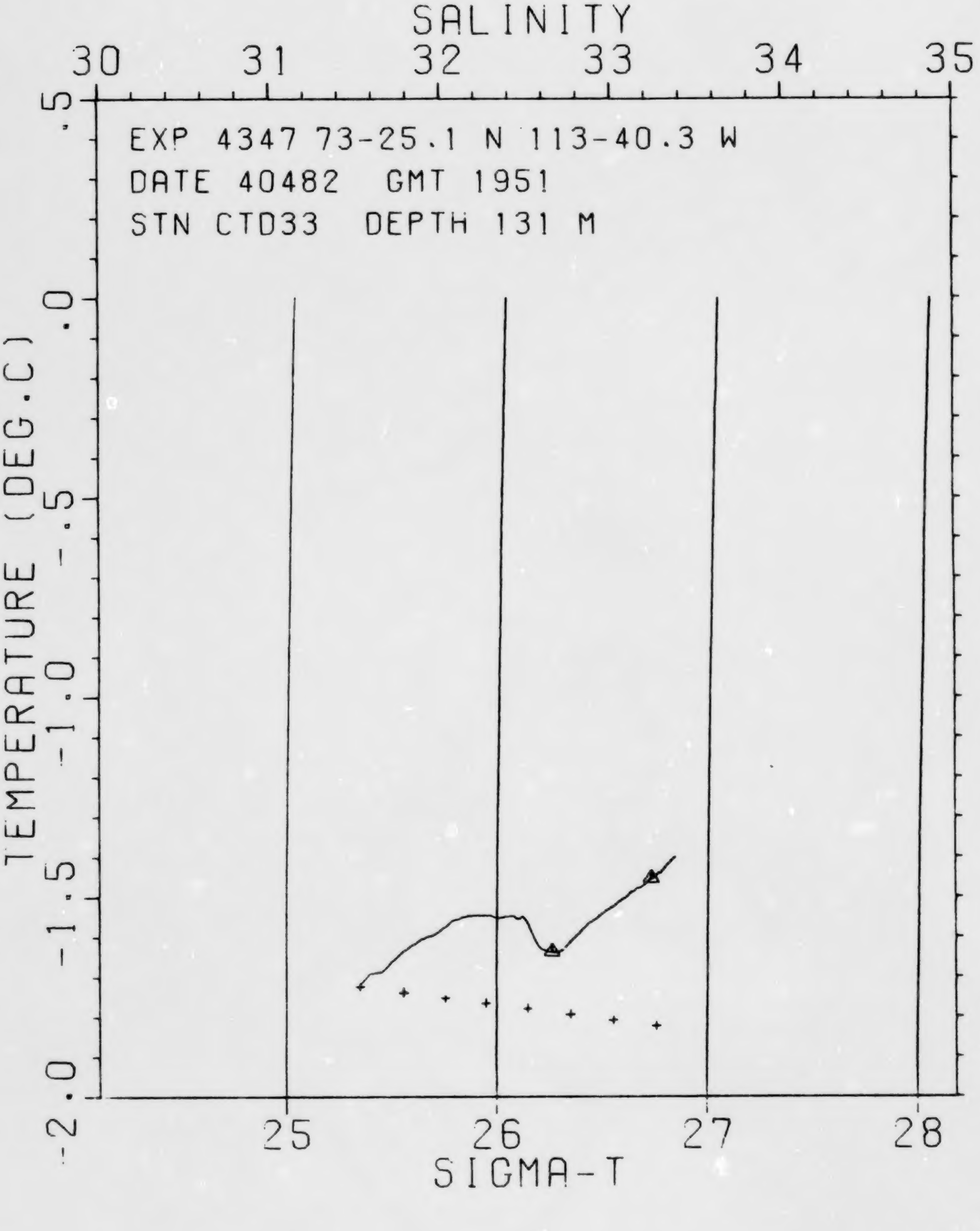

SALINITY
30
31
32
33
34
35
EXP 4346 73-29.4 N 113-22.9 W
DATE 40482 GMT 1827
STN CTD34 DEPTH 171 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

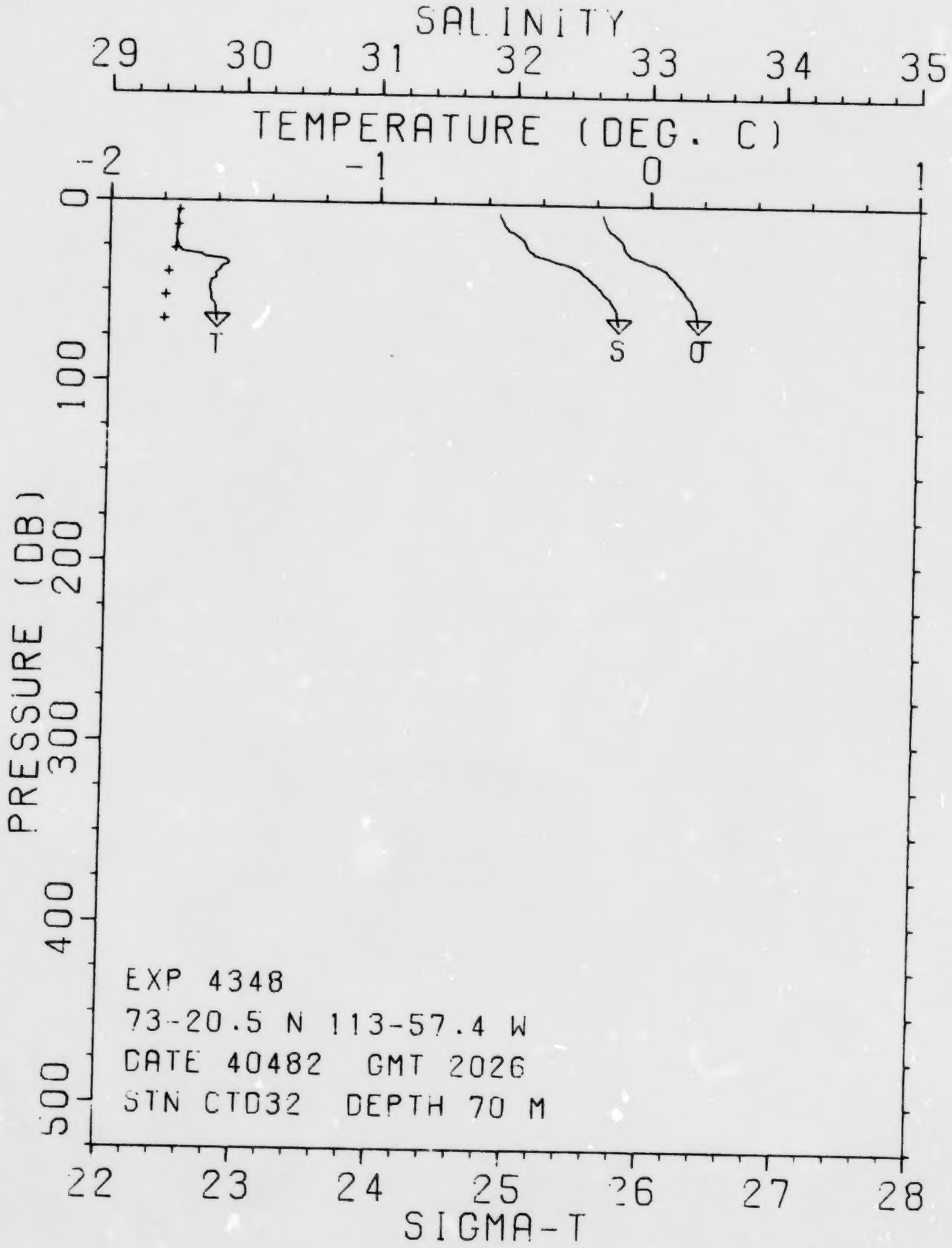

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4347
73-25.1 N 113-40.3 W
DATE 40482 GMT 1951
STN CTD33 DEPTH 131 M
SIGMA-T
22
23
24
25
26
27
28

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD33 EXPERIMENT NO. 4347 DATE 040482 GMT 1951
LAT. 73-25.1 N LONG. 113-40.3 W
WATER DEPTH 131.0 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.725	31.520	25.350	.0140	1436.46
6.0	-1.725	31.519	25.350	.0157	1436.47
7.0	-1.725	31.518	25.349	.0183	1436.49
8.0	-1.724	31.518	25.349	.0209	1436.50
9.0	-1.725	31.519	25.349	.0235	1436.52
10.0	-1.724	31.518	25.348	.0261	1436.54
11.0	-1.724	31.518	25.349	.0287	1436.55
12.0	-1.723	31.517	25.348	.0314	1436.57
13.0	-1.724	31.517	25.348	.0340	1436.59
14.0	-1.726	31.521	25.351	.0366	1436.60
15.0	-1.724	31.518	25.349	.0392	1436.62
16.0	-1.724	31.518	25.348	.0418	1436.63
17.0	-1.724	31.517	25.348	.0444	1436.65
18.0	-1.720	31.518	25.349	.0470	1436.68
19.0	-1.692	31.585	25.402	.0496	1436.93
20.0	-1.669	31.693	25.490	.0521	1437.21
21.0	-1.620	31.827	25.598	.0546	1437.64
22.0	-1.606	31.883	25.643	.0569	1437.81
23.0	-1.591	31.972	25.715	.0592	1438.02
24.0	-1.561	32.061	25.787	.0615	1438.30
25.0	-1.549	32.150	25.859	.0636	1438.50
27.5	-1.548	32.293	25.975	.0686	1438.75
30.0	-1.550	32.387	26.051	.0738	1438.91
32.5	-1.555	32.443	26.097	.0786	1439.01
35.0	-1.553	32.487	26.132	.0833	1439.12
37.5	-1.582	32.522	26.161	.0679	1439.07
40.0	-1.609	32.550	26.185	.0925	1439.03
42.5	-1.623	32.569	26.200	.0970	1439.03
45.0	-1.633	32.596	26.223	.1015	1439.06
47.5	-1.637	32.626	26.247	.1060	1439.12
50.0	-1.638	32.649	26.266	.1103	1439.19
55.0	-1.638	32.675	26.287	.1190	1439.31
60.0	-1.632	32.709	26.314	.1275	1439.47
65.0	-1.616	32.748	26.346	.1359	1439.68
70.0	-1.598	32.787	26.377	.1441	1439.90
75.0	-1.572	32.849	26.426	.1522	1440.19
80.0	-1.546	32.927	26.490	.1600	1440.51
85.0	-1.529	32.990	26.540	.1675	1440.76
90.0	-1.508	33.055	26.592	.1748	1441.03
95.0	-1.488	33.121	26.646	.1816	1441.30
100.0	-1.454	33.228	26.732	.1884	1441.70
105.0	-1.446	33.247	26.746	.1949	1441.83
106.0	-1.446	33.253	26.751	.1961	1441.86

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
107.0	-1.446	33.256	26.754	.1974	1441.89
108.0	-1.444	33.263	26.760	.1987	1441.92
109.0	-1.440	33.271	26.766	.1999	1441.97
110.0	-1.439	33.274	26.768	.2012	1441.99
111.0	-1.439	33.282	26.775	.2025	1442.02
112.0	-1.437	33.288	26.780	.2037	1442.05
113.0	-1.437	33.289	26.781	.2050	1442.08
114.0	-1.434	33.292	26.783	.2062	1442.11
115.0	-1.432	33.296	26.786	.2075	1442.14
116.0	-1.428	33.304	26.792	.2087	1442.19
117.0	-1.426	33.310	26.797	.2099	1442.22
118.0	-1.426	33.312	26.798	.2112	1442.24
119.0	-1.426	33.313	26.800	.2124	1442.26
120.0	-1.422	33.317	26.803	.2136	1442.30
121.0	-1.420	33.324	26.808	.2148	1442.34
122.0	-1.417	33.329	26.812	.2161	1442.37
123.0	-1.415	33.331	26.814	.2173	1442.40
124.0	-1.416	33.332	26.815	.2185	1442.42
125.0	-1.415	33.334	26.816	.2197	1442.44
126.0	-1.409	33.343	26.824	.2209	1442.50
127.0	-1.403	33.357	26.835	.2221	1442.56
127.7	-1.400	33.367	26.843	.2230	1442.60

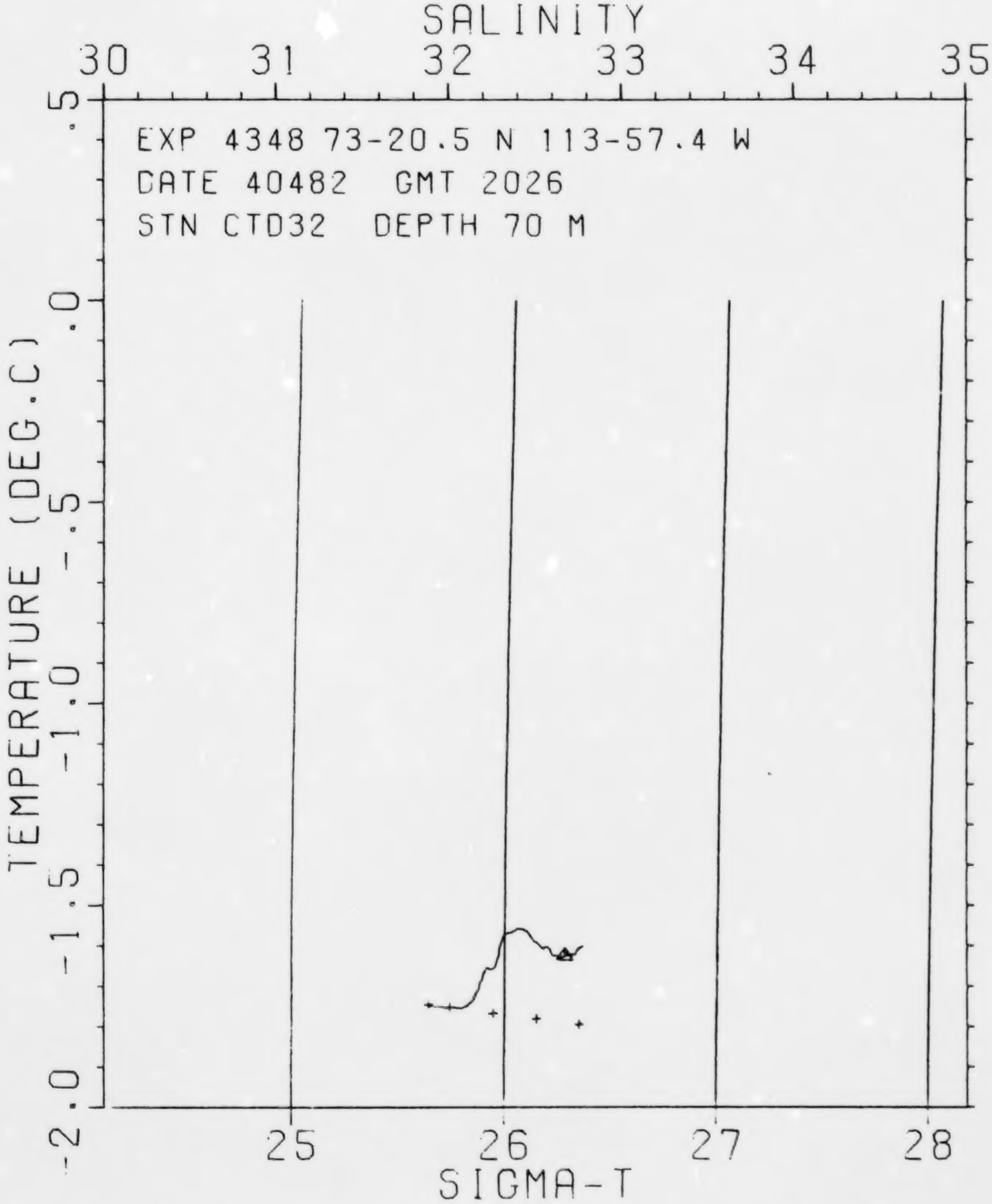

SALINITY
30
31
32
33
34
35
EXP 4347 73-25.1 N 113-40.3 W
DATE 40482 GMT 1951
STN CTD33 DEPTH 131 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

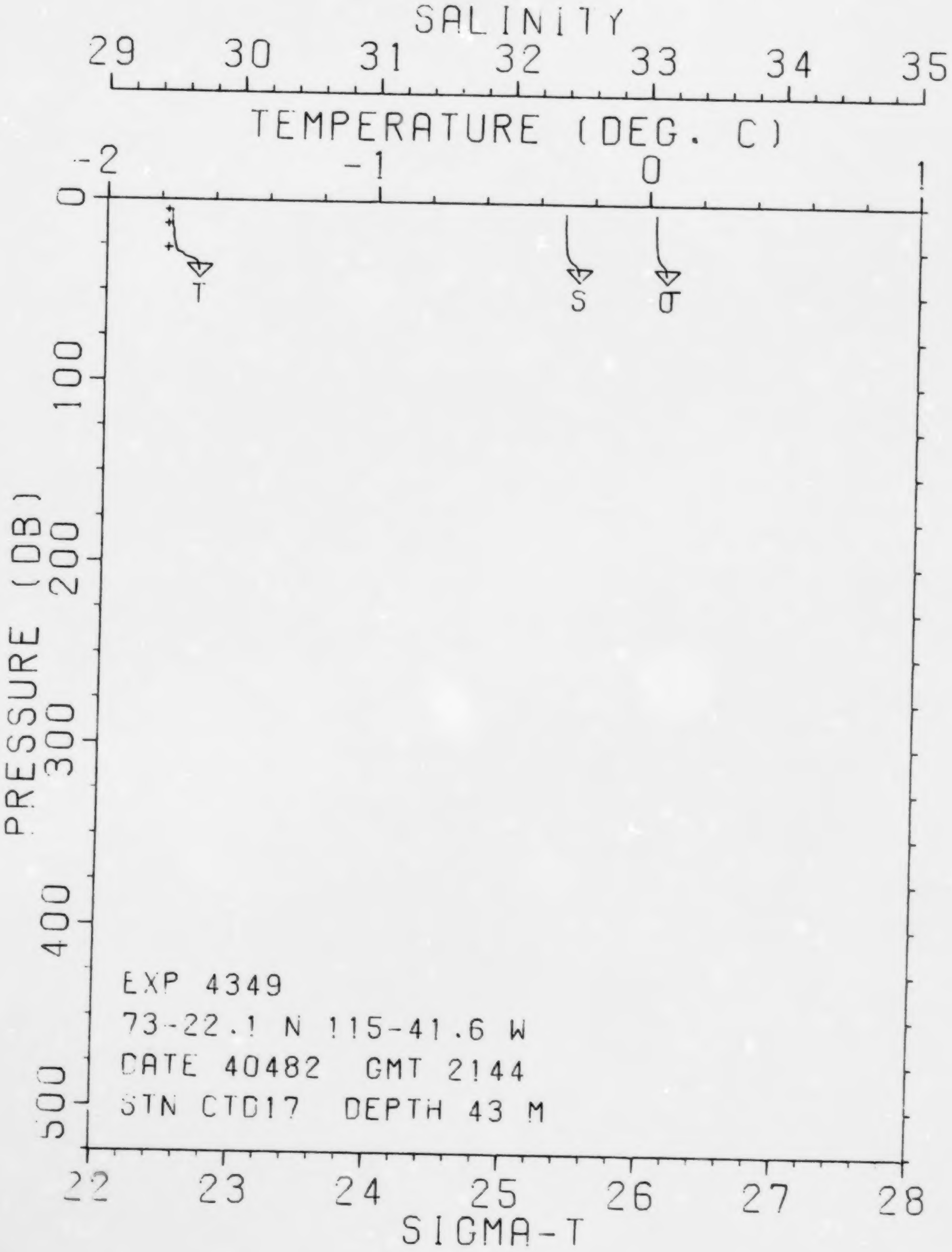


EXP 4348
73-20.5 N 113-57.4 W
DATE 40482 GMT 2026
STN CTD32 DEPTH 70 M

```
CRUISE 015-82-021  WESTERN NORTH-WEST PASSAGE
STATION CTD32  EXPERIMENT NO.   4348   DATE 040482 GMT 2026
LAT. 73-20.5 N   LONG. 113-57.4 W
WATER DEPTH   70.3 M   ICE THICKNESS 2.1 M


PRESSURE   TEMP    SALINITY  SIGMAT     DHA      SOUND
 (DBARS)  (DEG.C)                     (DYN M)    (M/S)

    5.1   -1.751   31.882   25.645    .0119   1436.84
    6.0   -1.749   31.882   25.645    .0140   1436.87
    7.0   -1.749   31.888   25.650    .0163   1436.89
    8.0   -1.749   31.894   25.655    .0187   1436.91
    9.0   -1.749   31.902   25.661    .0210   1436.94
   10.0   -1.750   31.913   25.671    .0233   1436.97
   11.0   -1.750   31.919   25.675    .0256   1436.99
   12.0   -1.750   31.923   25.678    .0279   1437.01
   13.0   -1.750   31.935   25.688    .0302   1437.05
   14.0   -1.751   31.949   25.699    .0325   1437.08
   15.0   -1.752   31.964   25.711    .0348   1437.11
   16.0   -1.752   31.999   25.740    .0370   1437.18
   17.0   -1.752   32.010   25.749    .0393   1437.21
   18.0   -1.752   32.033   25.768    .0415   1437.26
   19.0   -1.754   32.050   25.782    .0437   1437.29
   20.0   -1.753   32.068   25.796    .0459   1437.33
   21.0   -1.754   32.074   25.801    .0481   1437.35
   22.0   -1.754   32.079   25.806    .0503   1437.38
   23.0   -1.753   32.084   25.809    .0524   1437.41
   24.0   -1.750   32.090   25.814    .0546   1437.45
   25.0   -1.749   32.100   25.822    .0568   1437.48
   27.5   -1.735   32.141   25.855    .0622   1437.65
   30.0   -1.657   32.239   25.933    .0674   1438.19
   32.5   -1.567   32.347   26.019    .0725   1438.82
   35.0   -1.560   32.438   26.092    .0773   1439.02
   37.5   -1.589   32.496   26.140    .0820   1439.00
   40.0   -1.606   32.541   26.177    .0866   1439.03
   42.5   -1.603   32.573   26.203    .0911   1439.13
   45.0   -1.625   32.611   26.235    .0956   1439.12
   46.0   -1.624   32.620   26.242    .0974   1439.15
   47.0   -1.632   32.641   26.259    .0991   1439.16
   48.0   -1.627   32.648   26.265    .1009   1439.21
   49.0   -1.629   32.654   26.270    .1026   1439.23
   50.0   -1.626   32.668   26.281    .1043   1439.28
   51.0   -1.624   32.686   26.296    .1060   1439.33
   52.0   -1.622   32.702   26.308    .1078   1439.37
   53.0   -1.622   32.715   26.319    .1094   1439.41
   54.0   -1.624   32.717   26.321    .1111   1439.42
   55.0   -1.621   32.728   26.329    .1128   1439.46
   56.0   -1.618   32.735   26.335    .1145   1439.50
   57.0   -1.607   32.747   26.345    .1162   1439.59
   58.0   -1.606   32.753   26.349    .1178   1439.62
   59.0   -1.604   32.761   26.356    .1195   1439.66
```

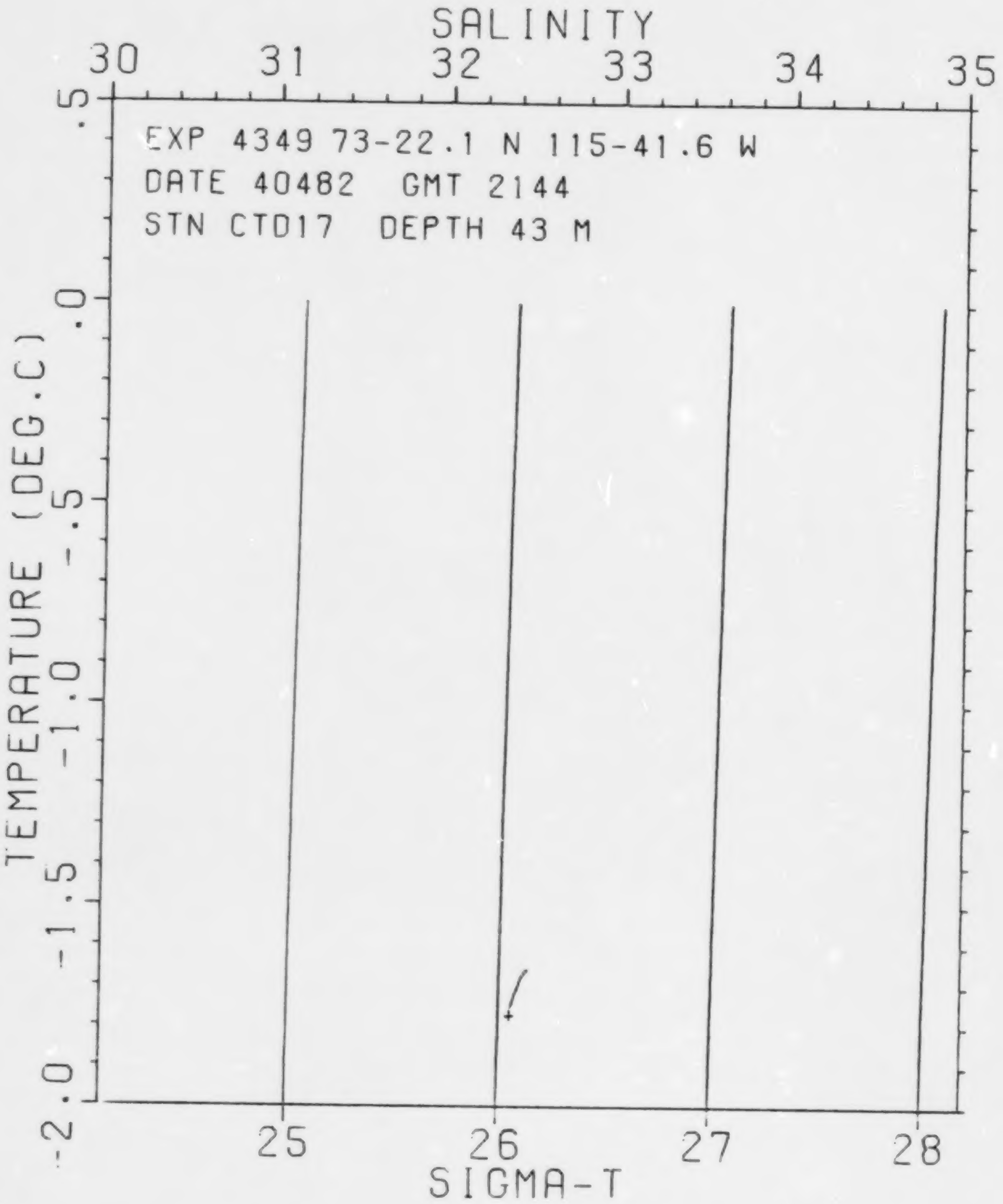
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
60.0	-1.604	32.761	26.356	.1211	1439.67
61.0	-1.604	32.761	26.356	.1228	1439.69
62.0	-1.604	32.764	26.359	.1244	1439.71
63.0	-1.603	32.765	26.359	.1261	1439.73
64.0	-1.603	32.768	26.362	.1278	1439.75
65.0	-1.602	32.769	26.363	.1294	1439.78
66.0	-1.601	32.772	26.365	.1310	1439.80
66.8	-1.600	32.775	26.368	.1324	1439.82

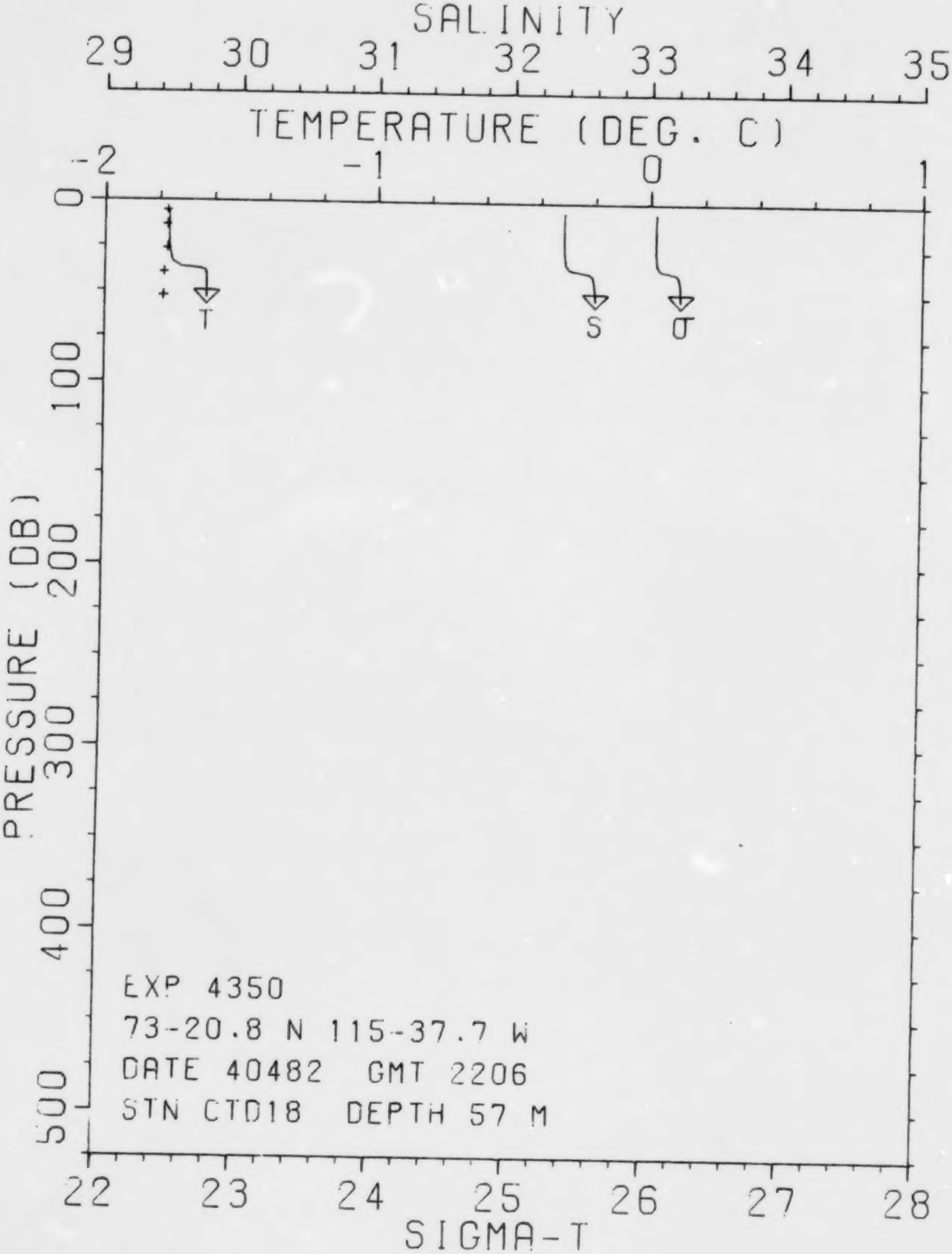

SALINITY
30
31
32
33
34
35
EXP 4348 73-20.5 N 113-57.4 W
DATE 40482 GMT 2026
STN CTD32 DEPTH 70 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4349
73-22.1 N 115-41.6 W
DATE 40482 GMT 2144
STN CTD17 DEPTH 43 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD17 EXPERIMENT NO. 4349 DATE 040482 GMT 2144
LAT. 73-22.1 N LONG. 115-41.6 W
WATER DEPTH 42.9 M ICE THICKNESS 1.7 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.760	32.383	26.052	.0105	1437.51
6.0	-1.761	32.384	26.053	.0117	1437.51
7.0	-1.761	32.383	26.052	.0136	1437.53
8.0	-1.760	32.365	26.054	.0156	1437.55
9.0	-1.760	32.382	26.052	.0175	1437.56
10.0	-1.760	32.382	26.052	.0195	1437.58
11.0	-1.761	32.383	26.052	.0214	1437.60
12.0	-1.760	32.382	26.052	.0234	1437.61
13.0	-1.760	32.363	26.052	.0253	1437.63
14.0	-1.760	32.383	26.052	.0273	1437.65
15.0	-1.759	32.383	26.052	.0292	1437.67
16.0	-1.756	32.382	26.052	.0311	1437.70
17.0	-1.753	32.385	26.054	.0331	1437.73
18.0	-1.752	32.386	26.054	.0350	1437.76
19.0	-1.753	32.386	26.054	.0370	1437.77
20.0	-1.756	32.386	26.054	.0389	1437.77
21.0	-1.753	32.384	26.053	.0409	1437.80
22.0	-1.753	32.387	26.055	.0428	1437.82
23.0	-1.751	32.388	26.056	.0447	1437.84
24.0	-1.748	32.389	26.057	.0467	1437.88
25.0	-1.747	32.392	26.059	.0486	1437.90
26.0	-1.749	32.393	26.060	.0506	1437.91
27.0	-1.742	32.396	26.062	.0525	1437.96
28.0	-1.746	32.393	26.060	.0544	1437.96
29.0	-1.740	32.398	26.064	.0564	1438.01
30.0	-1.717	32.413	26.076	.0583	1438.16
31.0	-1.715	32.417	26.079	.0602	1438.19
32.0	-1.698	32.433	26.092	.0621	1438.31
33.0	-1.678	32.449	26.104	.0640	1438.44
34.0	-1.667	32.467	26.118	.0659	1438.54
35.0	-1.664	32.474	26.125	.0678	1438.58
36.0	-1.664	32.474	26.124	.0697	1438.59
37.0	-1.660	32.481	26.130	.0716	1438.64
38.0	-1.661	32.482	26.131	.0734	1438.65
39.0	-1.658	32.484	26.132	.0753	1438.66
39.4	-1.659	32.486	26.134	.0760	1438.69


SALINITY
30
31
32
33
34
35
EXP 4349 73-22.1 N 115-41.6 W
DATE 40482 GMT 2144
STN CTD17 DEPTH 43 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

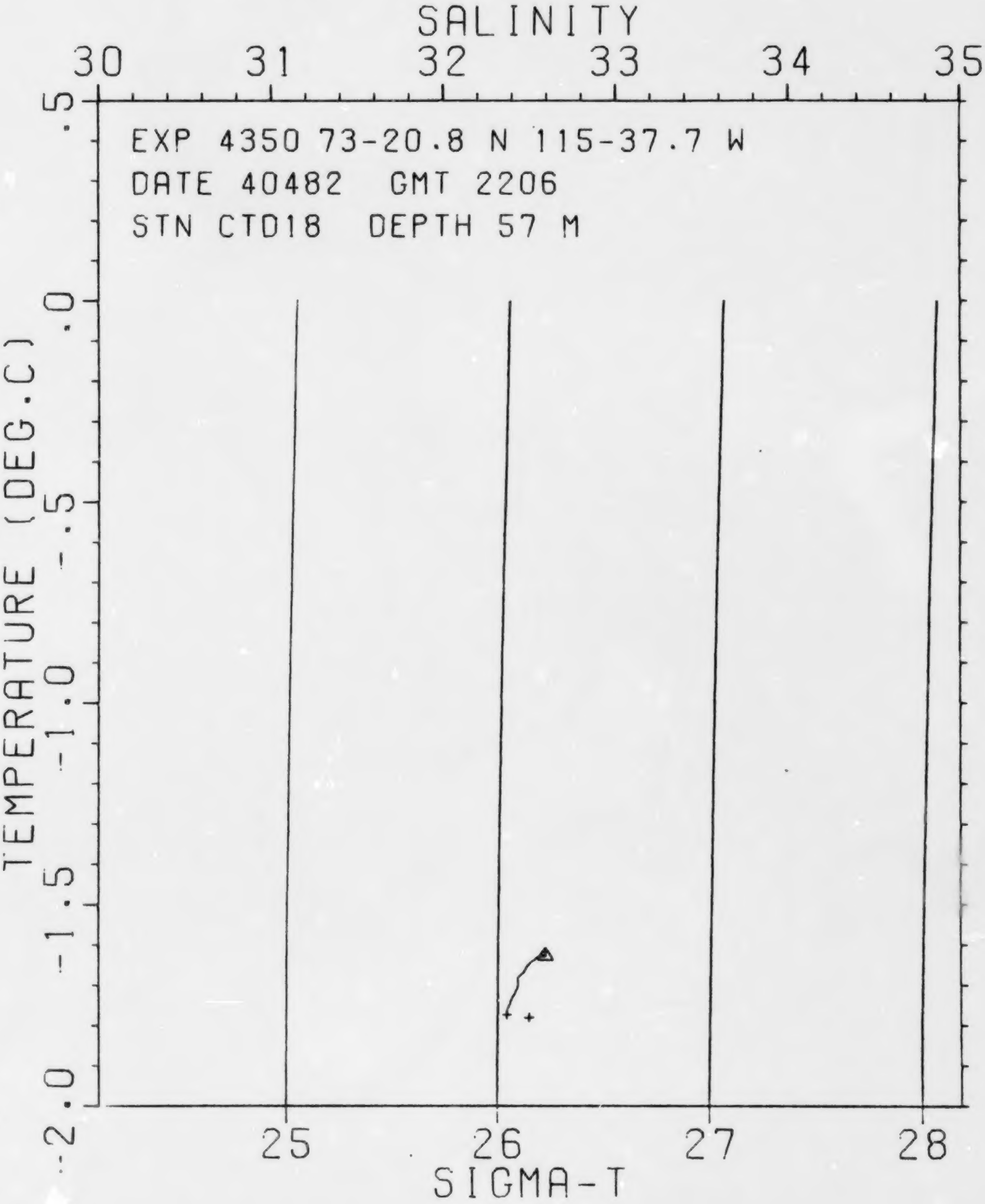


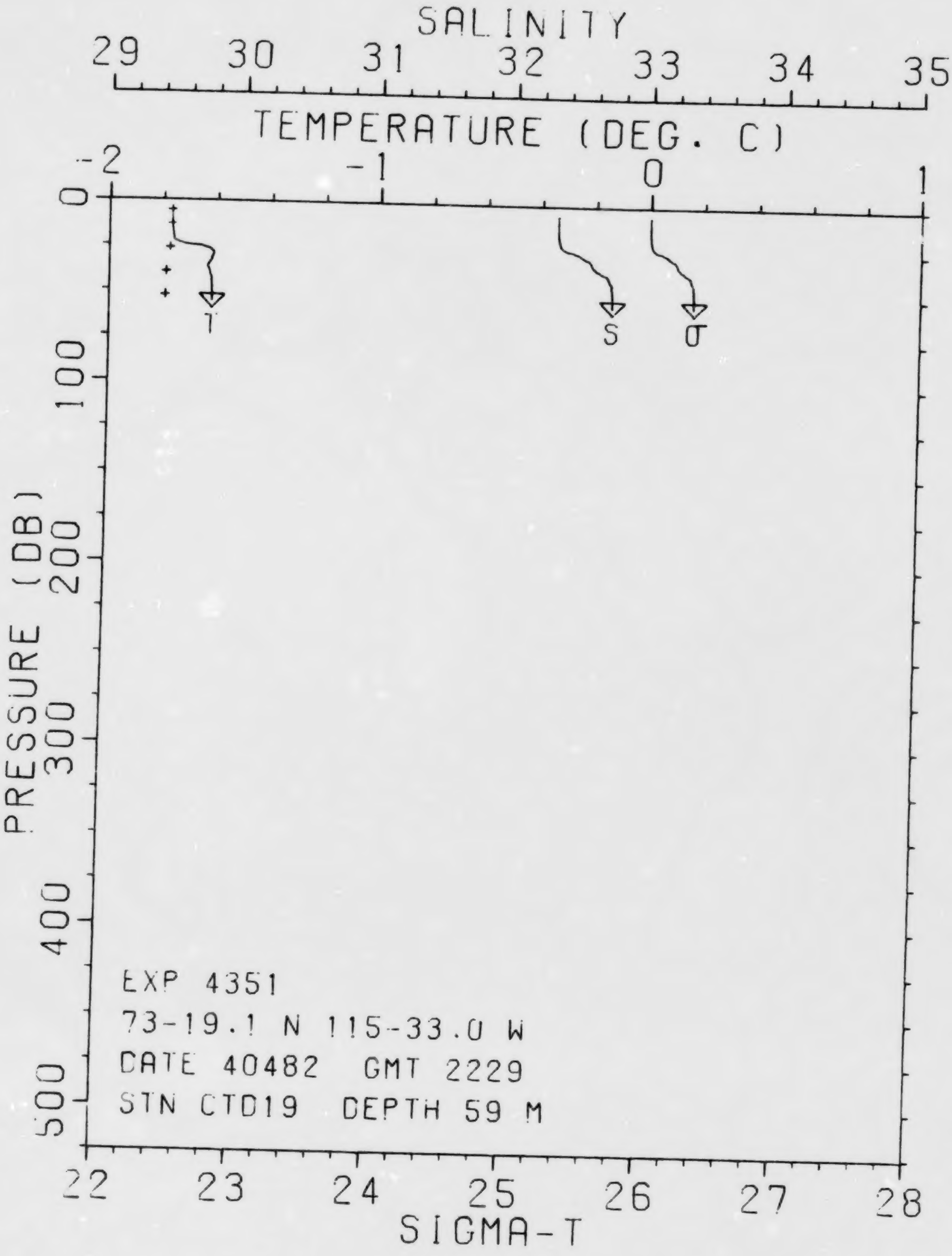
EXP 4350
73-20.8 N 115-37.7 W
DATE 40482 GMT 2206
STN CTD18 DEPTH 57 M

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD18 EXPERIMENT NO. 4350 DATE 040482 GMT 2206
LAT. 73-20.8 N LONG. 115-37.7 W
WATER DEPTH 57.1 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.767	32.371	26.043	.0106	1437.46
6.0	-1.766	32.370	26.042	.0117	1437.47
7.0	-1.766	32.370	26.042	.0137	1437.49
8.0	-1.766	32.370	26.042	.0156	1437.50
9.0	-1.766	32.369	26.041	.0176	1437.52
10.0	-1.766	32.369	26.041	.0196	1437.54
11.0	-1.765	32.369	26.041	.0215	1437.55
12.0	-1.765	32.372	26.043	.0235	1437.58
13.0	-1.765	32.368	26.041	.0254	1437.59
14.0	-1.766	32.370	26.042	.0274	1437.60
15.0	-1.766	32.371	26.043	.0293	1437.62
16.0	-1.766	32.368	26.041	.0313	1437.63
17.0	-1.766	32.370	26.042	.0333	1437.65
18.0	-1.766	32.369	26.041	.0352	1437.67
19.0	-1.765	32.369	26.041	.0372	1437.68
20.0	-1.766	32.371	26.042	.0391	1437.70
21.0	-1.765	32.371	26.043	.0411	1437.72
22.0	-1.765	32.369	26.041	.0430	1437.74
23.0	-1.765	32.372	26.043	.0450	1437.75
24.0	-1.765	32.370	26.042	.0469	1437.77
25.0	-1.765	32.370	26.042	.0489	1437.78
27.5	-1.763	32.371	26.043	.0538	1437.84
30.0	-1.757	32.376	26.047	.0587	1437.91
32.0	-1.756	32.380	26.050	.0626	1437.96
33.0	-1.754	32.383	26.052	.0645	1437.99
34.0	-1.750	32.382	26.051	.0664	1438.02
35.0	-1.736	32.396	26.063	.0684	1438.12
36.0	-1.726	32.408	26.072	.0703	1438.21
37.0	-1.698	32.436	26.094	.0722	1438.39
38.0	-1.642	32.510	26.153	.0741	1438.78
39.0	-1.629	32.565	26.197	.0759	1438.94
40.0	-1.627	32.580	26.210	.0777	1438.98
41.0	-1.626	32.584	26.213	.0795	1439.01
42.0	-1.627	32.587	26.215	.0813	1439.03
43.0	-1.626	32.588	26.216	.0831	1439.05
44.0	-1.627	32.592	26.219	.0849	1439.07
45.0	-1.626	32.592	26.219	.0867	1439.09
46.0	-1.627	32.594	26.221	.0885	1439.10
47.0	-1.626	32.593	26.220	.0902	1439.12
48.0	-1.626	32.594	26.221	.0920	1439.14
49.0	-1.625	32.596	26.222	.0938	1439.16
50.0	-1.626	32.597	26.224	.0956	1439.17
51.0	-1.625	32.595	26.221	.0974	1439.19

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
52.0	-1.626	32.599	26.225	.0992	1439.21
53.0	-1.626	32.600	26.226	.1009	1439.23
53.7	-1.627	32.600	26.226	.1022	1439.23


SALINITY
30
31
32
33
34
35
EXP 4350 73-20.8 N 115-37.7 W
DATE 40482 GMT 2206
STN CTD18 DEPTH 57 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

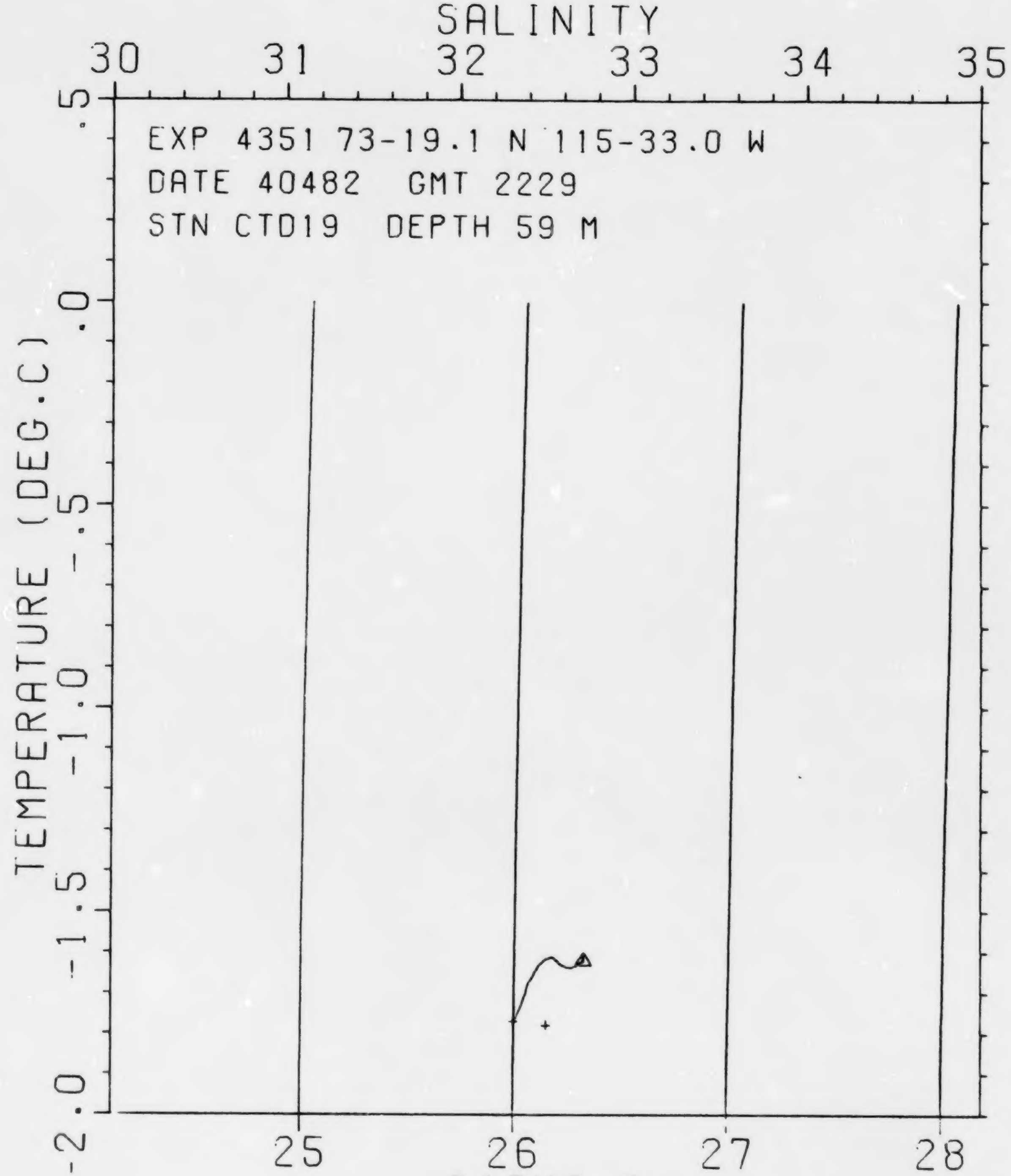


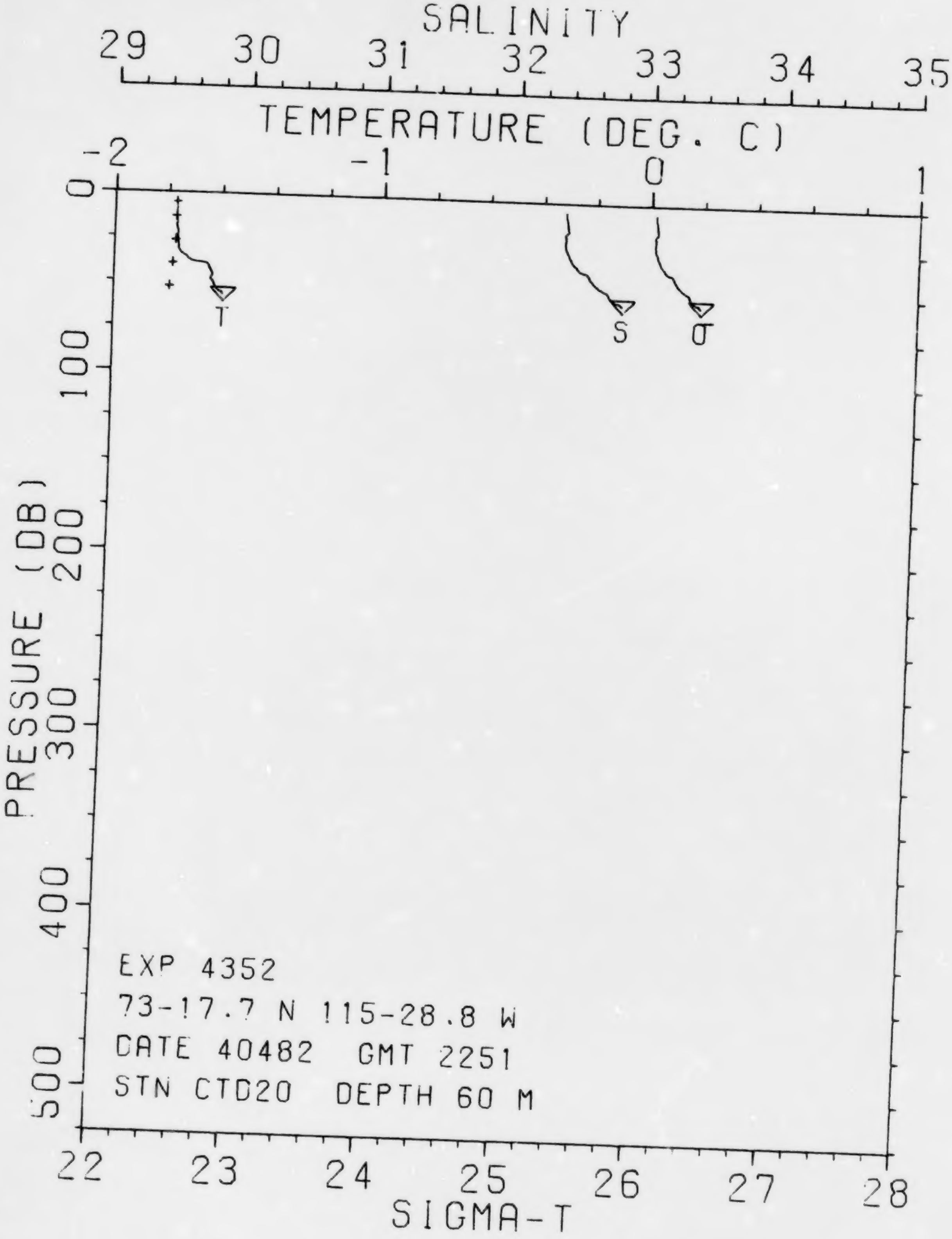
EXP 4351
73-19.1 N 115-33.0 W
DATE 40482 GMT 2229
STN CTD19 DEPTH 59 M

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD19 EXPERIMENT NO. 4351 DATE 040482 GMT 2229
LAT. 73-19.1 N LONG. 115-33.0 W
WATER DEPTH 59.4 M ICE THICKNESS 2.1 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.769	32.315	25.997	.0108	1437.37
6.0	-1.768	32.315	25.997	.0120	1437.38
7.0	-1.768	32.314	25.997	.0140	1437.40
8.0	-1.770	32.316	25.998	.0160	1437.41
9.0	-1.769	32.315	25.997	.0180	1437.43
10.0	-1.769	32.315	25.997	.0200	1437.45
11.0	-1.768	32.314	25.996	.0220	1437.46
12.0	-1.768	32.316	25.998	.0240	1437.48
13.0	-1.767	32.315	25.997	.0260	1437.50
14.0	-1.768	32.316	25.998	.0280	1437.51
15.0	-1.767	32.316	25.998	.0300	1437.54
16.0	-1.767	32.316	25.998	.0320	1437.55
17.0	-1.766	32.318	25.999	.0340	1437.58
18.0	-1.765	32.320	26.002	.0360	1437.60
19.0	-1.765	32.321	26.002	.0380	1437.62
20.0	-1.764	32.327	26.007	.0400	1437.65
21.0	-1.762	32.329	26.009	.0419	1437.68
22.0	-1.760	32.332	26.011	.0439	1437.71
23.0	-1.751	32.337	26.015	.0459	1437.77
24.0	-1.732	32.358	26.032	.0479	1437.91
25.0	-1.681	32.397	26.062	.0498	1438.22
27.5	-1.624	32.485	26.133	.0546	1438.66
30.0	-1.614	32.549	26.184	.0592	1438.84
32.5	-1.621	32.567	26.199	.0637	1438.87
34.0	-1.624	32.574	26.205	.0664	1438.89
35.0	-1.631	32.592	26.219	.0682	1438.90
36.0	-1.637	32.616	26.239	.0700	1438.92
37.0	-1.637	32.640	26.258	.0717	1438.97
38.0	-1.632	32.669	26.282	.0735	1439.05
39.0	-1.629	32.687	26.297	.0752	1439.11
40.0	-1.628	32.691	26.299	.0769	1439.13
41.0	-1.627	32.696	26.304	.0786	1439.16
42.0	-1.626	32.700	26.307	.0803	1439.19
43.0	-1.621	32.714	26.318	.0820	1439.25
44.0	-1.621	32.717	26.320	.0837	1439.27
45.0	-1.621	32.713	26.317	.0854	1439.28
46.0	-1.622	32.714	26.318	.0871	1439.29
47.0	-1.621	32.719	26.322	.0888	1439.32
48.0	-1.620	32.719	26.322	.0905	1439.34
49.0	-1.621	32.720	26.323	.0922	1439.35
50.0	-1.621	32.720	26.323	.0938	1439.37
51.0	-1.621	32.720	26.323	.0955	1439.39
52.0	-1.620	32.719	26.323	.0972	1439.41

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
53.0	-1.620	32.720	26.323	.0989	1439.42
54.0	-1.619	32.719	26.322	.1006	1439.44
55.0	-1.620	32.719	26.322	.1023	1439.46
55.9	-1.621	32.719	26.323	.1037	1439.47

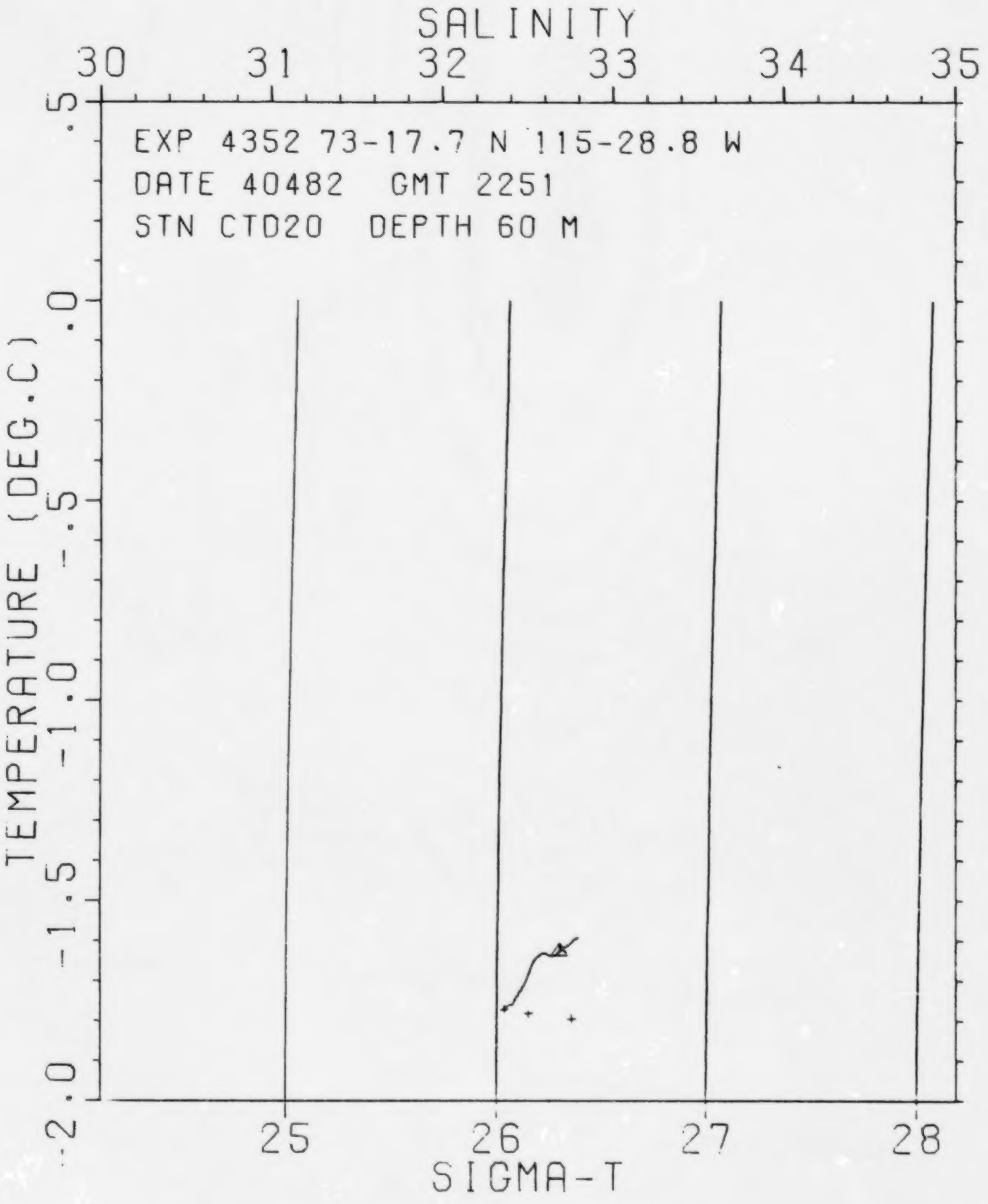

SALINITY
30
31
32
33
34
35
EXP 4351 73-19.1 N 115-33.0 W
DATE 40482 GMT 2229
STN CTD19 DEPTH 59 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

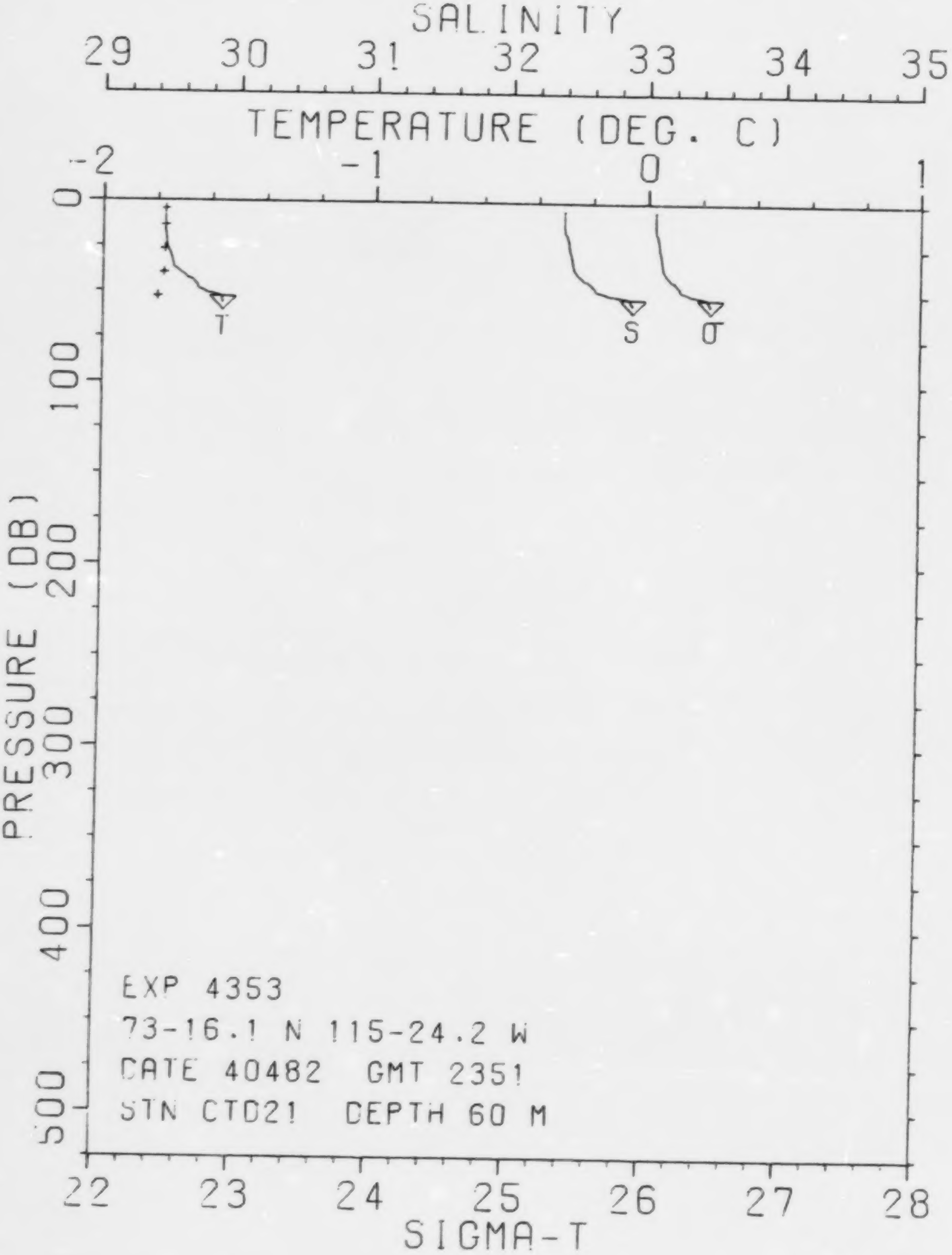

SALINITY
29 30 31 32 33 34 35
TEMPERATURE (DEG. C)
-2 -1 0 1
PRESSURE (DB)
0 100 200 300 400 500
T
S
σ
EXP 4352
73-17.7 N 115-28.8 W
DATE 40482 GMT 2251
STN CTD20 DEPTH 60 M
22 23 24 25 26 27 28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD20 EXPERIMENT NO. 4352 DATE 040482 GMT 2251
LAT. 73-17.7 N LONG. 115-28.8 W
WATER DEPTH 60.3 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.1	-1.772	32.363	26.036	.0100	1437.42
6.0	-1.771	32.361	26.035	.0118	1437.44
7.0	-1.770	32.365	26.038	.0137	1437.46
8.0	-1.769	32.364	26.037	.0157	1437.48
9.0	-1.769	32.370	26.042	.0176	1437.50
10.0	-1.770	32.374	26.046	.0196	1437.52
11.0	-1.770	32.375	26.046	.0215	1437.54
12.0	-1.769	32.373	26.044	.0235	1437.56
13.0	-1.769	32.378	26.049	.0254	1437.58
14.0	-1.771	32.384	26.053	.0274	1437.60
15.0	-1.768	32.378	26.048	.0293	1437.62
16.0	-1.768	32.386	26.055	.0313	1437.65
17.0	-1.768	32.369	26.041	.0332	1437.64
18.0	-1.771	32.355	26.030	.0352	1437.62
19.0	-1.771	32.363	26.036	.0372	1437.65
20.0	-1.768	32.365	26.038	.0391	1437.68
21.0	-1.764	32.361	26.035	.0411	1437.71
22.0	-1.763	32.358	26.032	.0430	1437.73
23.0	-1.763	32.360	26.034	.0450	1437.75
24.0	-1.766	32.359	26.033	.0470	1437.75
25.0	-1.765	32.366	26.039	.0489	1437.78
27.5	-1.764	32.381	26.051	.0536	1437.85
30.0	-1.760	32.394	26.062	.0587	1437.92
32.5	-1.757	32.412	26.076	.0635	1438.00
35.0	-1.739	32.433	26.092	.0683	1438.16
36.0	-1.725	32.456	26.111	.0702	1438.28
37.0	-1.723	32.462	26.116	.0721	1438.31
38.0	-1.712	32.478	26.129	.0739	1438.40
39.0	-1.669	32.519	26.161	.0758	1438.68
40.0	-1.646	32.538	26.176	.0776	1438.82
41.0	-1.645	32.553	26.198	.0794	1438.88
42.0	-1.644	32.552	26.188	.0813	1438.90
43.0	-1.639	32.563	26.196	.0831	1438.95
44.0	-1.636	32.575	26.205	.0849	1439.00
45.0	-1.632	32.579	26.209	.0867	1439.04
46.0	-1.633	32.602	26.227	.0885	1439.08
47.0	-1.634	32.617	26.240	.0902	1439.12
48.0	-1.640	32.641	26.259	.0920	1439.14
49.0	-1.637	32.668	26.281	.0937	1439.21
50.0	-1.627	32.690	26.299	.0954	1439.30
51.0	-1.624	32.693	26.301	.0972	1439.34
52.0	-1.623	32.698	26.306	.0989	1439.36
53.0	-1.620	32.707	26.313	.1006	1439.41

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
54.0	-1.614	32.727	26.329	.1022	1439.48
55.0	-1.605	32.755	26.351	.1039	1439.58
56.0	-1.593	32.789	26.378	.1056	1439.70
56.9	-1.592	32.794	26.382	.1071	1439.73

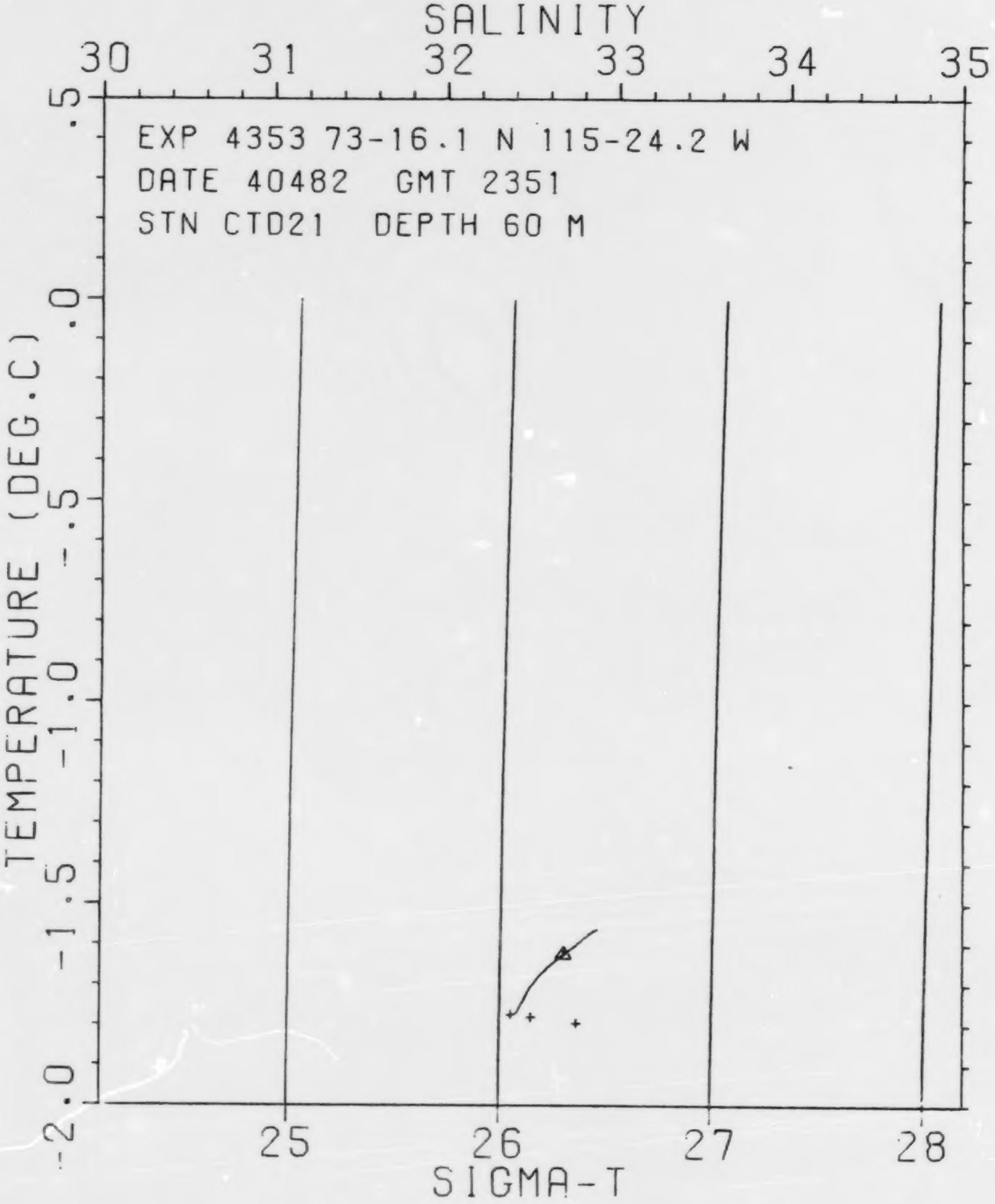

SALINITY
30
31
32
33
34
35
EXP 4352 73-17.7 N 115-28.8 W
DATE 40482 GMT 2251
STN CTD20 DEPTH 60 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

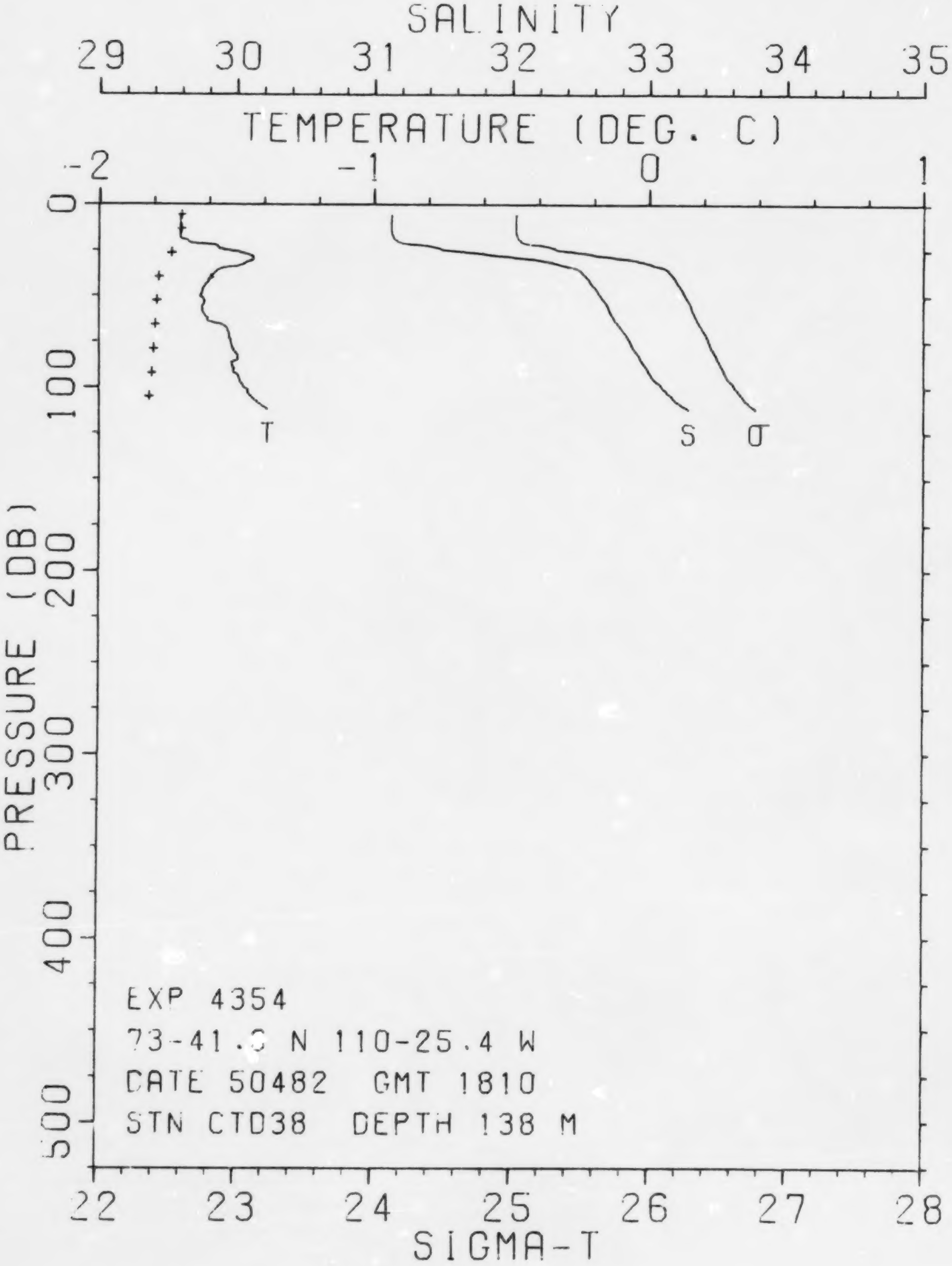

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
0
100
200
300
400
500
PRESSURE (DB)
T
S
σ
EXP 4353
73-16.1 N 115-24.2 W
DATE 40482 GMT 2351
STN CTD21 DEPTH 60 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD21 EXPERIMENT NO. 4353 DATE 040482 GMT 2351
LAT. 73-16.1 N LONG. 115-24.2 W
WATER DEPTH 60.0 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
4.3	-1.775	32.383	26.053	.0085	1437.42
5.0	-1.775	32.383	26.053	.0097	1437.43
6.0	-1.775	32.383	26.052	.0117	1437.45
7.0	-1.774	32.382	26.052	.0136	1437.47
8.0	-1.775	32.384	26.053	.0156	1437.48
9.0	-1.774	32.383	26.052	.0175	1437.50
10.0	-1.775	32.384	26.053	.0195	1437.51
11.0	-1.773	32.382	26.051	.0214	1437.53
12.0	-1.774	32.383	26.053	.0233	1437.55
13.0	-1.774	32.384	26.053	.0253	1437.57
14.0	-1.773	32.382	26.052	.0272	1437.59
15.0	-1.774	32.384	26.054	.0292	1437.60
16.0	-1.773	32.385	26.054	.0311	1437.62
17.0	-1.774	32.390	26.058	.0331	1437.64
18.0	-1.771	32.401	26.068	.0350	1437.69
19.0	-1.771	32.407	26.072	.0369	1437.71
20.0	-1.770	32.410	26.074	.0389	1437.74
21.0	-1.770	32.412	26.076	.0408	1437.76
22.0	-1.769	32.416	26.079	.0427	1437.78
23.0	-1.768	32.418	26.081	.0446	1437.80
24.0	-1.767	32.420	26.083	.0465	1437.83
25.0	-1.766	32.421	26.084	.0485	1437.85
27.5	-1.760	32.429	26.090	.0532	1437.93
30.0	-1.752	32.438	26.097	.0580	1438.02
32.5	-1.747	32.444	26.101	.0627	1438.10
35.0	-1.743	32.448	26.105	.0675	1438.16
36.0	-1.742	32.451	26.108	.0694	1438.19
37.0	-1.741	32.455	26.111	.0713	1438.22
38.0	-1.729	32.468	26.120	.0732	1438.31
39.0	-1.720	32.477	26.128	.0750	1438.38
40.0	-1.714	32.483	26.133	.0769	1438.43
41.0	-1.702	32.502	26.148	.0788	1438.53
42.0	-1.693	32.520	26.162	.0806	1438.62
43.0	-1.681	32.538	26.177	.0824	1438.72
44.0	-1.670	32.568	26.201	.0842	1438.83
45.0	-1.663	32.582	26.212	.0860	1438.90
46.0	-1.656	32.595	26.222	.0878	1438.96
47.0	-1.651	32.610	26.235	.0896	1439.02
48.0	-1.651	32.613	26.237	.0914	1439.05
49.0	-1.640	32.646	26.264	.0931	1439.16
50.0	-1.625	32.688	26.297	.0949	1439.31
51.0	-1.614	32.716	26.319	.0966	1439.41
52.0	-1.576	32.830	26.411	.0982	1439.77

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
53.0	-1.564	32.867	26.441	.0998	1439.90
54.0	-1.563	32.873	26.446	.1014	1439.92
55.0	-1.562	32.876	26.448	.1029	1439.95
56.0	-1.561	32.886	26.456	.1045	1439.99
56.3	-1.562	32.880	26.451	.1049	1439.98

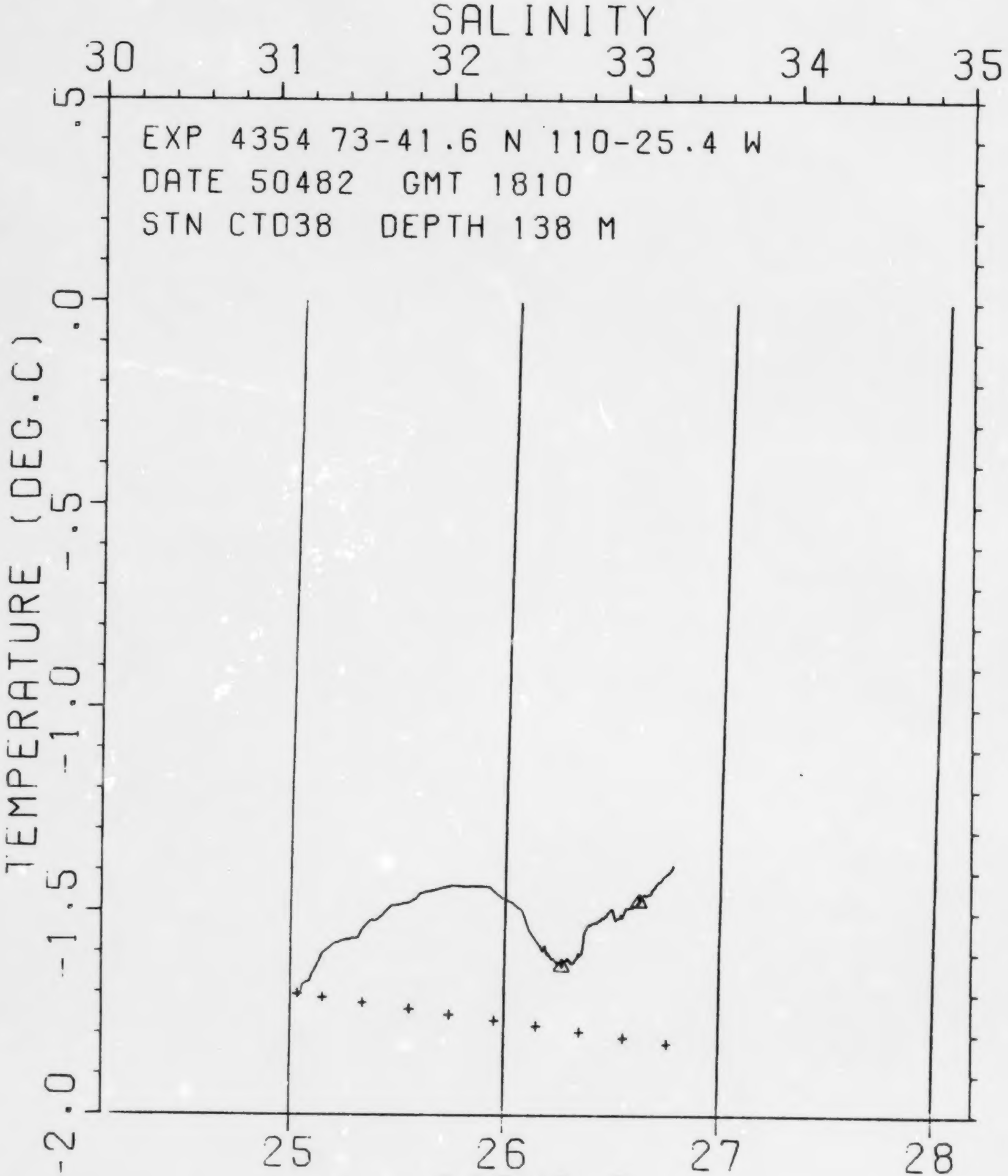

SALINITY
30
31
32
33
34
35
EXP 4353 73-16.1 N 115-24.2 W
DATE 40482 GMT 2351
STN CTD21 DEPTH 60 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

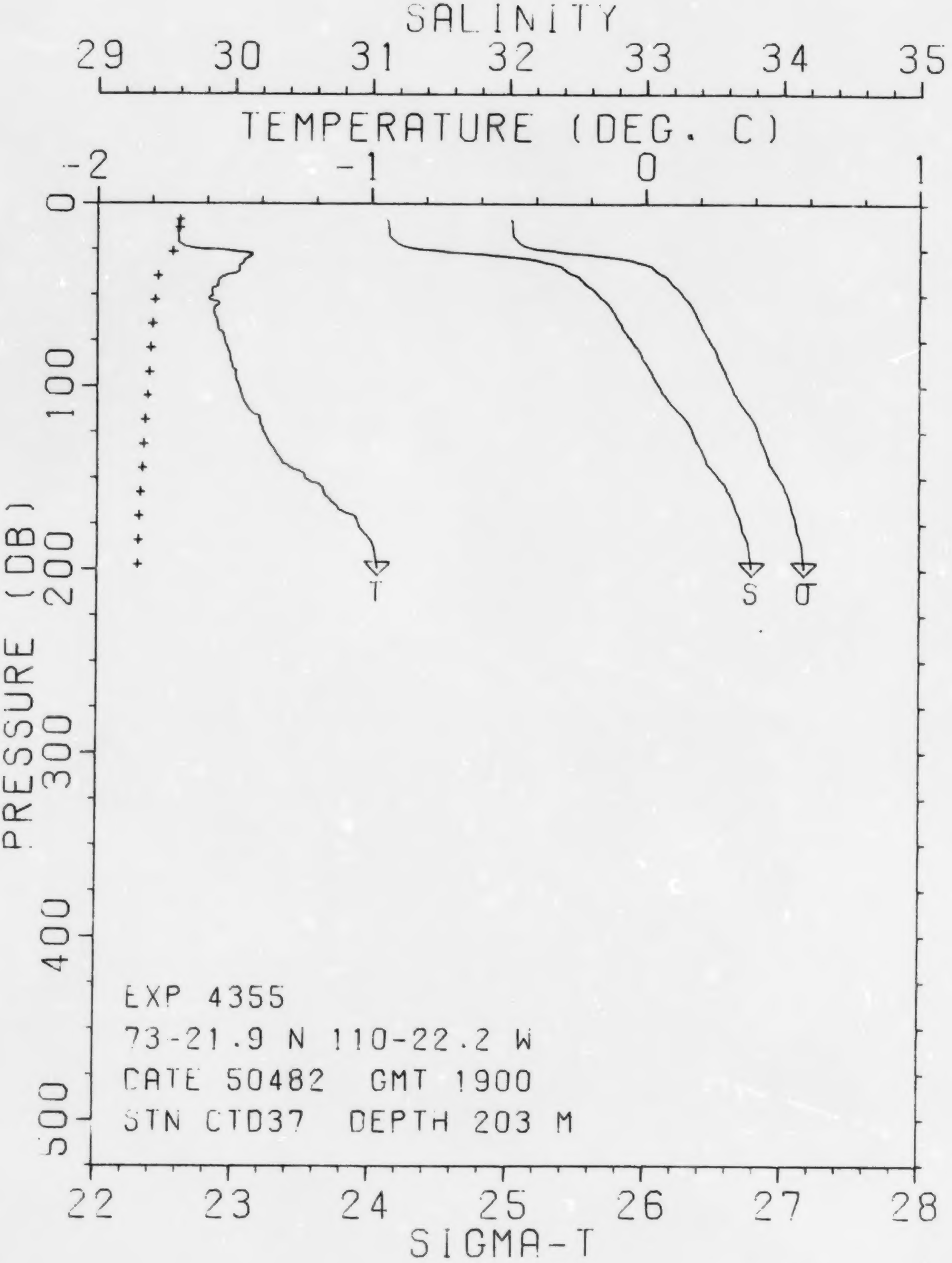

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4354
73-41.0 N 110-25.4 W
DATE 50482 GMT 1810
STN CTD38 DEPTH 138 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD38 EXPERIMENT NO. 4354 DATE 050482 GMT 1810
LAT. 73-41.6 N LONG. 110-25.4 W
WATER DEPTH 138.0 M ICE THICKNESS 2.2 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.7	-1.707	31.130	25.033	.0166	1436.00
6.0	-1.707	31.129	25.033	.0175	1436.01
7.0	-1.707	31.130	25.033	.0204	1436.02
8.0	-1.706	31.129	25.032	.0233	1436.04
9.0	-1.705	31.128	25.032	.0262	1436.06
10.0	-1.705	31.127	25.031	.0291	1436.08
11.0	-1.706	31.129	25.033	.0321	1436.09
12.0	-1.705	31.128	25.032	.0350	1436.11
13.0	-1.705	31.128	25.032	.0379	1436.13
14.0	-1.707	31.130	25.033	.0408	1436.14
15.0	-1.706	31.130	25.034	.0437	1436.16
16.0	-1.707	31.132	25.035	.0466	1436.18
17.0	-1.706	31.137	25.034	.0496	1436.20
18.0	-1.706	31.145	25.045	.0525	1436.23
19.0	-1.699	31.149	25.048	.0554	1436.29
20.0	-1.673	31.171	25.066	.0582	1436.46
21.0	-1.671	31.193	25.083	.0611	1436.51
22.0	-1.588	31.318	25.183	.0640	1437.10
23.0	-1.567	31.435	25.279	.0667	1437.38
24.0	-1.563	31.481	25.316	.0693	1437.48
25.0	-1.536	31.517	25.345	.0720	1437.68
27.5	-1.452	31.850	25.612	.0782	1438.58
30.0	-1.438	32.175	25.876	.0838	1439.14
32.5	-1.472	32.344	26.014	.0889	1439.26
35.0	-1.553	32.474	26.122	.0937	1439.10
37.5	-1.580	32.518	26.158	.0983	1439.08
40.0	-1.588	32.550	26.184	.1029	1439.12
42.5	-1.600	32.574	26.204	.1074	1439.14
45.0	-1.613	32.605	26.230	.1119	1439.16
47.5	-1.624	32.627	26.248	.1163	1439.18
50.0	-1.633	32.651	26.268	.1207	1439.22
55.0	-1.619	32.699	26.306	.1293	1439.43
60.0	-1.618	32.728	26.329	.1377	1439.56
65.0	-1.578	32.772	26.365	.1461	1439.89
70.0	-1.529	32.822	26.404	.1542	1440.28
75.0	-1.519	32.864	26.437	.1622	1440.47
80.0	-1.509	32.903	26.469	.1700	1440.65
85.0	-1.491	32.940	26.499	.1776	1440.87
90.0	-1.511	32.989	26.538	.1851	1440.93
95.0	-1.491	33.025	26.566	.1924	1441.15
100.0	-1.475	33.092	26.622	.1995	1441.41
105.0	-1.444	33.168	26.682	.2064	1441.74
110.0	-1.408	33.242	26.741	.2130	1442.09

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
112.2	-1.584	33.291	26.780	.2158	1442.31

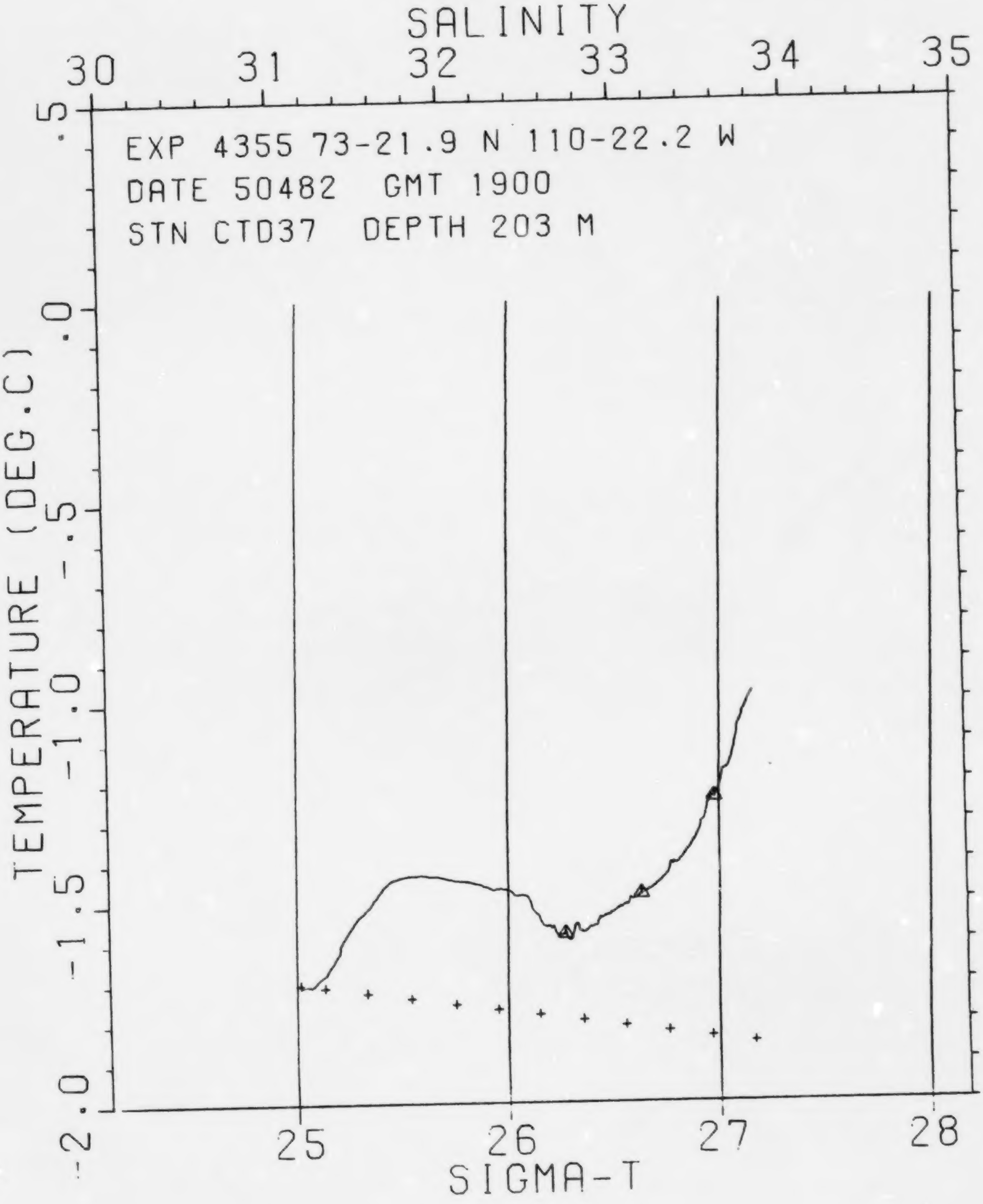

SALINITY
30
31
32
33
34
35
EXP 4354 73-41.6 N 110-25.4 W
DATE 50482 GMT 1810
STN CTD38 DEPTH 138 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

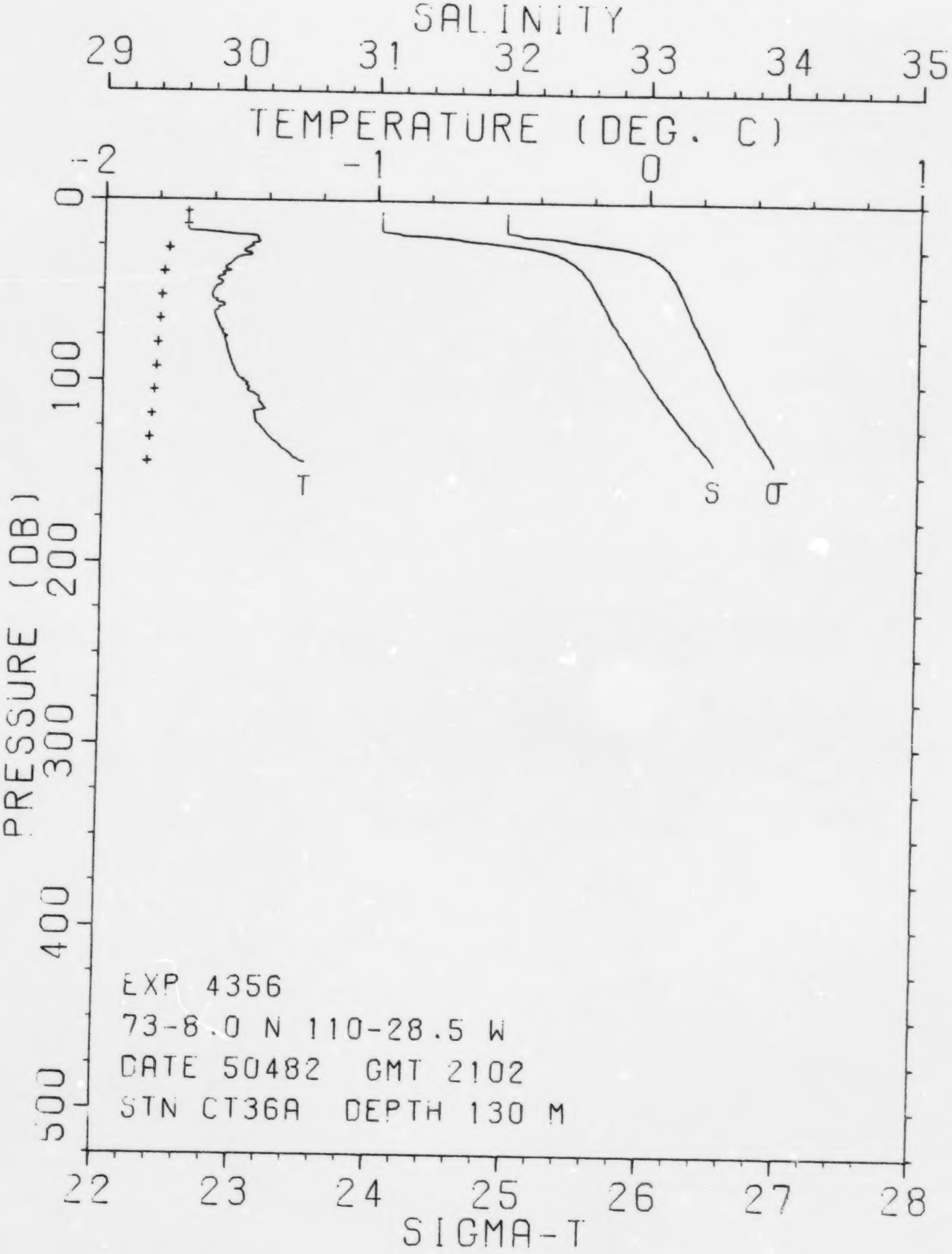

SALINITY
29 30 31 32 33 34 35
TEMPERATURE (DEG. C)
-2 -1 0 1
PRESSURE (DB)
0 100 200 300 400 500
T
S
σ
EXP 4355
73-21.9 N 110-22.2 W
DATE 50482 GMT 1900
STN CTD37 DEPTH 203 M
22 23 24 25 26 27 28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD37 EXPERIMENT NO. 4355 DATE 050482 GMT 1900
LAT. 73-21.9 N LONG. 110-22.2 W
WATER DEPTH 202.9 M ICE THICKNESS 2.3 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
8.5	-1.707	31.111	25.018	.0250	1436.02
9.0	-1.706	31.113	25.020	.0266	1436.04
10.0	-1.707	31.120	25.025	.0295	1436.06
11.0	-1.707	31.123	25.028	.0324	1436.08
12.0	-1.707	31.125	25.029	.0353	1436.10
13.0	-1.708	31.126	25.030	.0382	1436.11
14.0	-1.708	31.128	25.031	.0412	1436.13
15.0	-1.707	31.127	25.030	.0441	1436.15
16.0	-1.707	31.127	25.031	.0470	1436.17
17.0	-1.708	31.128	25.032	.0499	1436.18
18.0	-1.706	31.132	25.035	.0528	1436.21
19.0	-1.705	31.145	25.045	.0557	1436.25
20.0	-1.707	31.164	25.060	.0586	1436.28
21.0	-1.708	31.178	25.072	.0615	1436.32
22.0	-1.700	31.195	25.086	.0644	1436.40
23.0	-1.687	31.225	25.110	.0672	1436.51
24.0	-1.669	31.272	25.148	.0700	1436.68
25.0	-1.608	31.350	25.210	.0728	1437.10
27.5	-1.430	31.791	25.564	.0793	1438.60
30.0	-1.453	32.137	25.846	.0850	1439.02
32.5	-1.466	32.293	25.973	.0902	1439.22
35.0	-1.483	32.394	26.055	.0951	1439.32
37.5	-1.484	32.436	26.089	.0999	1439.42
40.0	-1.542	32.514	26.154	.1046	1439.29
42.5	-1.561	32.546	26.181	.1092	1439.29
45.0	-1.568	32.562	26.210	.1137	1439.35
47.5	-1.584	32.628	26.248	.1182	1439.38
50.0	-1.580	32.658	26.271	.1225	1439.48
55.0	-1.554	32.732	26.331	.1311	1439.79
60.0	-1.574	32.778	26.369	.1394	1439.84
65.0	-1.562	32.813	26.397	.1475	1440.03
70.0	-1.553	32.851	26.428	.1555	1440.21
75.0	-1.535	32.903	26.470	.1633	1440.44
80.0	-1.521	32.950	26.508	.1710	1440.66
85.0	-1.513	32.980	26.531	.1784	1440.82
90.0	-1.507	33.025	26.568	.1858	1441.00
95.0	-1.494	33.063	26.598	.1930	1441.19
100.0	-1.482	33.104	26.631	.2000	1441.39
105.0	-1.471	33.146	26.665	.2069	1441.58
110.0	-1.457	33.192	26.702	.2136	1441.79
115.0	-1.429	33.261	26.758	.2201	1442.10
120.0	-1.405	33.317	26.802	.2263	1442.36
125.0	-1.393	33.346	26.825	.2324	1442.56

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
130.0	-1.373	33.374	26.848	.2383	1442.77
135.0	-1.349	33.413	26.879	.2442	1443.02
140.0	-1.330	33.444	26.903	.2499	1443.24
145.0	-1.285	33.489	26.938	.2555	1443.59
150.0	-1.242	33.539	26.978	.2609	1443.95
155.0	-1.174	33.591	27.017	.2661	1444.42
160.0	-1.166	33.624	27.044	.2711	1444.59
165.0	-1.125	33.654	27.067	.2760	1444.90
170.0	-1.069	33.678	27.084	.2809	1445.28
175.0	-1.046	33.700	27.102	.2856	1445.50
177.0	-1.041	33.705	27.105	.2875	1445.56
178.0	-1.037	33.709	27.108	.2884	1445.61
179.0	-1.031	33.713	27.111	.2894	1445.65
180.0	-1.024	33.714	27.112	.2903	1445.71
181.0	-1.018	33.727	27.122	.2912	1445.77
182.0	-1.013	33.730	27.125	.2922	1445.82
183.0	-1.007	33.735	27.129	.2931	1445.86
184.0	-1.001	33.743	27.135	.2940	1445.92
185.0	-.997	33.750	27.140	.2949	1445.97
186.0	-.996	33.751	27.141	.2958	1445.99
187.0	-.992	33.753	27.143	.2967	1446.02
188.0	-.991	33.755	27.144	.2976	1446.05
189.0	-.989	33.756	27.145	.2985	1446.08
190.0	-.988	33.757	27.146	.2994	1446.10
191.0	-.987	33.761	27.149	.3003	1446.12
192.0	-.987	33.762	27.150	.3012	1446.15
193.0	-.985	33.765	27.152	.3021	1446.17
194.0	-.983	33.766	27.152	.3030	1446.20
195.0	-.981	33.769	27.155	.3039	1446.23
196.0	-.980	33.769	27.155	.3048	1446.25
197.0	-.979	33.772	27.157	.3057	1446.27
198.0	-.978	33.772	27.157	.3066	1446.30
199.0	-.978	33.772	27.158	.3075	1446.32
199.3	-.979	33.769	27.155	.3078	1446.31

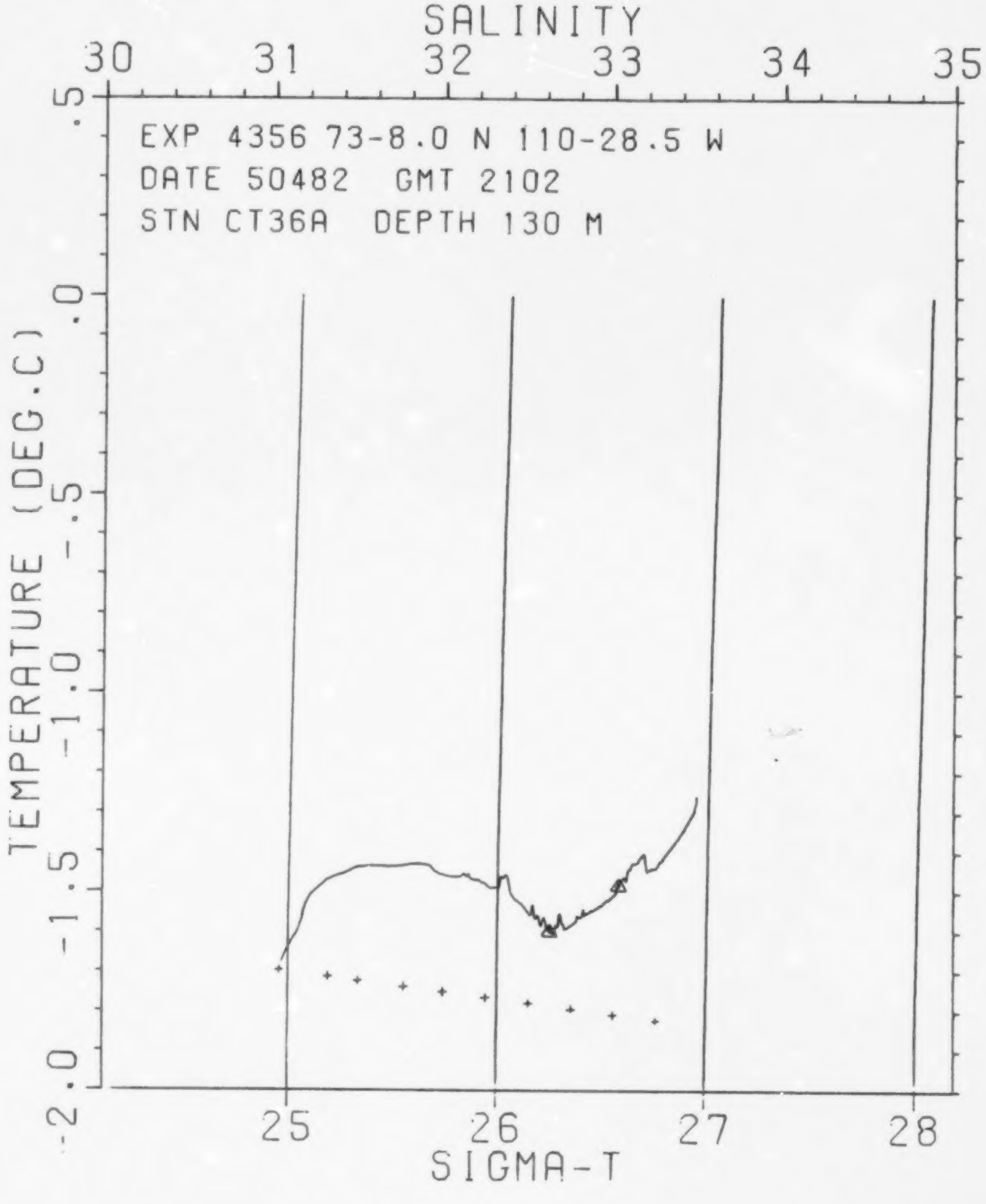

SALINITY
30
31
32
33
34
35
EXP 4355 73-21.9 N 110-22.2 W
DATE 50482 GMT 1900
STN CTD37 DEPTH 203 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

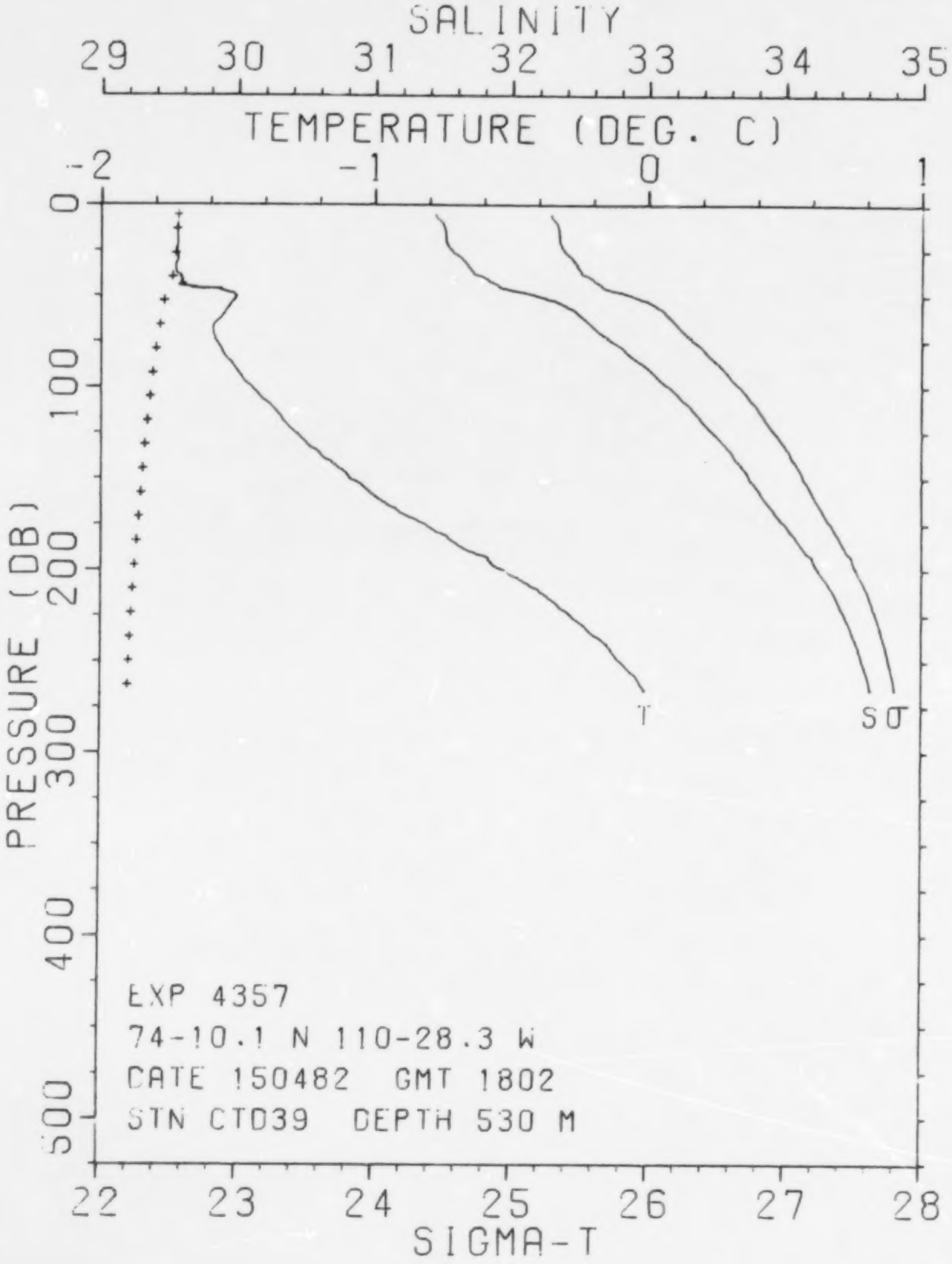

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
0
100
200
300
400
500
PRESSURE (DB)
T
S
σ
EXP 4356
73-8.0 N 110-28.5 W
DATE 50482 GMT 2102
STN CT36A DEPTH 130 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CT36A EXPERIMENT NO. 4356 DATE 050482 GMT 2102
LAT. 73-08.0 N LONG. 110-28.5 W
WATER DEPTH 130.0 M ICE THICKNESS 1.8 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
6.1	-1.696	31.037	24.958	.0184	1435.93
7.0	-1.696	31.036	24.957	.0209	1435.95
8.0	-1.696	31.037	24.958	.0239	1435.96
9.0	-1.695	31.037	24.958	.0269	1435.98
10.0	-1.696	31.038	24.958	.0299	1436.00
11.0	-1.696	31.039	24.959	.0329	1436.01
12.0	-1.696	31.038	24.958	.0359	1436.03
13.0	-1.695	31.037	24.957	.0388	1436.05
14.0	-1.695	31.037	24.958	.0418	1436.06
15.0	-1.695	31.037	24.957	.0448	1436.08
16.0	-1.695	31.037	24.958	.0478	1436.10
17.0	-1.689	31.040	24.960	.0508	1436.14
18.0	-1.574	31.167	25.061	.0537	1436.89
19.0	-1.471	31.310	25.175	.0566	1437.59
20.0	-1.438	31.525	25.349	.0593	1438.07
21.0	-1.436	31.627	25.432	.0618	1438.24
22.0	-1.437	31.727	25.512	.0643	1438.39
23.0	-1.431	31.884	25.640	.0667	1438.65
24.0	-1.458	32.000	25.735	.0690	1438.71
25.0	-1.454	32.124	25.835	.0712	1438.91
27.5	-1.490	32.275	25.959	.0764	1439.00
30.0	-1.457	32.379	26.043	.0814	1439.34
32.5	-1.520	32.432	26.087	.0862	1439.16
35.0	-1.537	32.477	26.124	.0909	1439.18
37.5	-1.554	32.521	26.160	.0956	1439.20
40.0	-1.565	32.543	26.178	.1002	1439.22
42.5	-1.583	32.576	26.205	.1047	1439.23
45.0	-1.567	32.592	26.218	.1092	1439.36
47.5	-1.589	32.614	26.236	.1136	1439.33
50.0	-1.601	32.631	26.250	.1180	1439.34
55.0	-1.582	32.668	26.280	.1267	1439.56
60.0	-1.582	32.707	26.312	.1353	1439.70
65.0	-1.590	32.738	26.337	.1437	1439.79
70.0	-1.574	32.785	26.375	.1520	1440.01
75.0	-1.554	32.828	26.409	.1601	1440.25
80.0	-1.549	32.876	26.448	.1680	1440.42
85.0	-1.540	32.912	26.477	.1758	1440.60
90.0	-1.530	32.945	26.504	.1834	1440.77
95.0	-1.516	32.992	26.541	.1909	1440.99
100.0	-1.487	33.037	26.577	.1981	1441.27
105.0	-1.474	33.081	26.613	.2053	1441.48
110.0	-1.428	33.126	26.648	.2122	1441.84
115.0	-1.407	33.179	26.690	.2190	1442.09

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
120.0	-1.441	33.231	26.733	.2255	1442.09
125.0	-1.420	33.286	26.778	.2319	1442.35
130.0	-1.394	33.336	26.817	.2381	1442.62
135.0	-1.353	33.405	26.872	.2440	1442.99
140.0	-1.310	33.462	26.917	.2497	1443.36
144.7	-1.259	33.497	26.944	.2549	1443.72

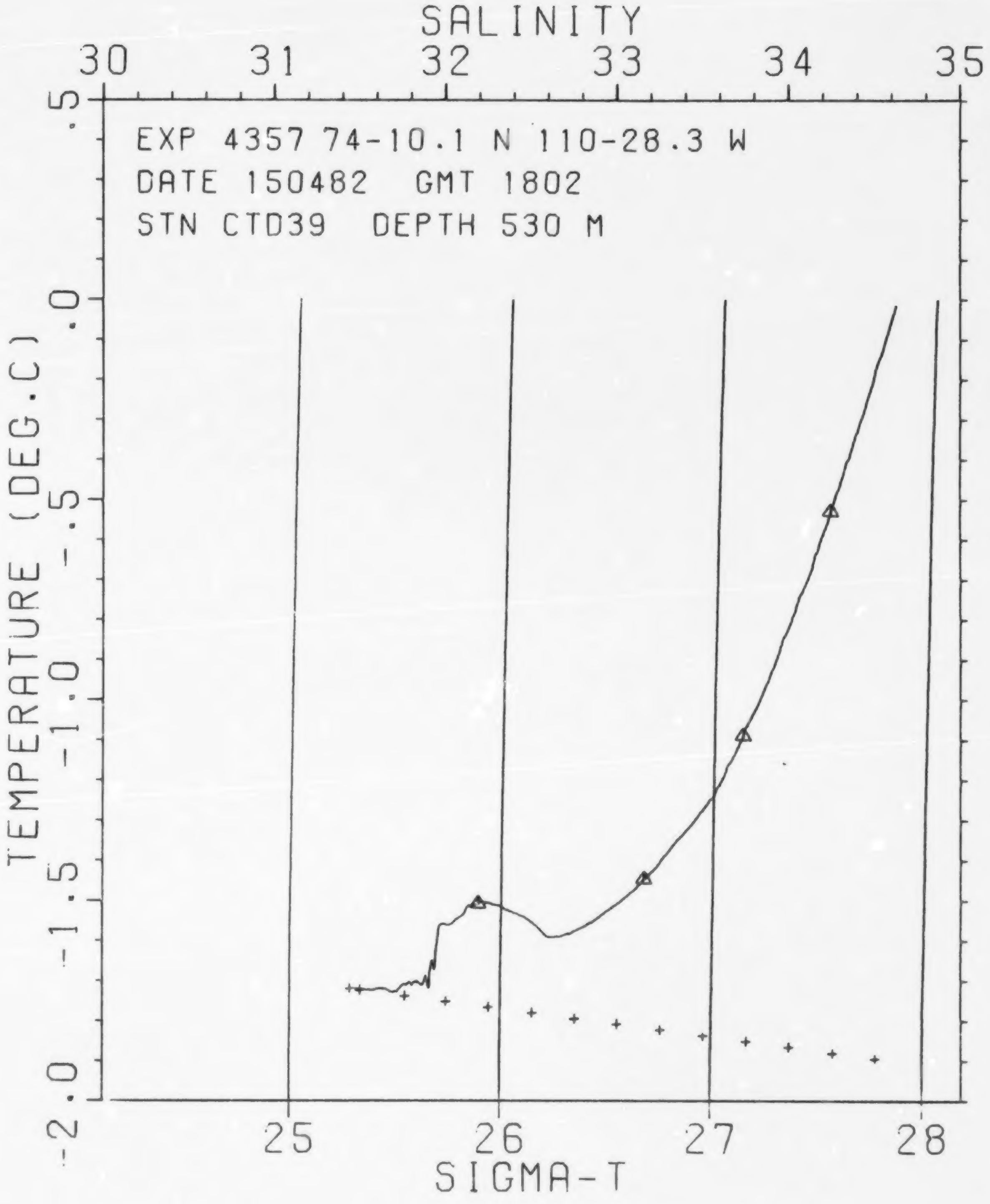

SALINITY
30
31
32
33
34
35
EXP 4356 73-8.0 N 110-28.5 W
DATE 50482 GMT 2102
STN CT36A DEPTH 130 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

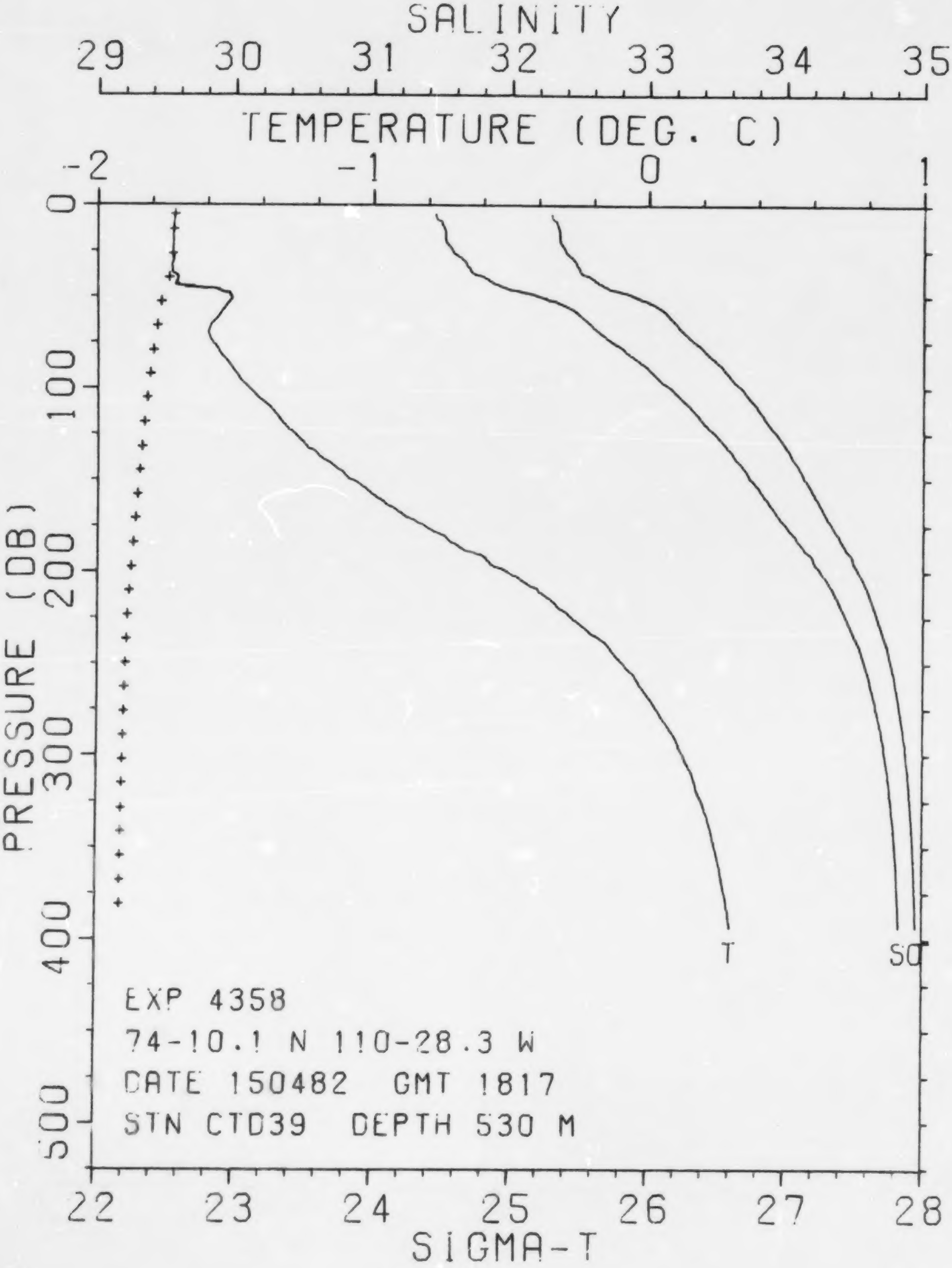

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4357
74-10.1 N 110-28.3 W
DATE 150482 GMT 1802
STN CTD39 DEPTH 530 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD39 EXPERIMENT NO. 4357 DATE 150482 GMT 1802
LAT. 74-10.1 N LONG. 110-28.3 W
WATER DEPTH 530.0 M ICE THICKNESS 2.1 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.2	-1.719	31.442	25.287	.0139	1436.38
6.0	-1.718	31.443	25.288	.0161	1436.40
7.0	-1.718	31.453	25.296	.0188	1436.42
8.0	-1.719	31.463	25.304	.0214	1436.45
9.0	-1.720	31.480	25.318	.0241	1436.49
10.0	-1.722	31.498	25.332	.0267	1436.52
11.0	-1.721	31.503	25.336	.0293	1436.54
12.0	-1.721	31.507	25.339	.0320	1436.57
13.0	-1.722	31.512	25.344	.0346	1436.59
14.0	-1.723	31.516	25.347	.0372	1436.60
15.0	-1.722	31.516	25.347	.0398	1436.63
16.0	-1.722	31.516	25.347	.0424	1436.64
17.0	-1.722	31.518	25.349	.0450	1436.66
18.0	-1.721	31.517	25.348	.0477	1436.68
19.0	-1.722	31.520	25.350	.0503	1436.69
20.0	-1.721	31.519	25.349	.0529	1436.71
21.0	-1.722	31.526	25.355	.0555	1436.74
22.0	-1.721	31.532	25.360	.0581	1436.77
23.0	-1.723	31.539	25.366	.0607	1436.78
24.0	-1.723	31.548	25.373	.0633	1436.81
25.0	-1.724	31.563	25.385	.0659	1436.84
27.5	-1.719	31.606	25.420	.0723	1436.97
30.0	-1.721	31.643	25.450	.0786	1437.05
32.5	-1.726	31.675	25.476	.0849	1437.12
35.0	-1.728	31.701	25.497	.0911	1437.16
37.5	-1.726	31.722	25.515	.0972	1437.26
40.0	-1.707	31.802	25.579	.1033	1437.51
42.5	-1.711	31.860	25.626	.1092	1437.61
45.0	-1.680	31.911	25.667	.1150	1437.87
47.5	-1.546	32.061	25.786	.1207	1438.75
50.0	-1.508	32.190	25.890	.1261	1439.16
55.0	-1.528	32.389	26.052	.1361	1439.43
60.0	-1.551	32.494	26.138	.1456	1439.55
65.0	-1.583	32.573	26.203	.1546	1439.59
70.0	-1.590	32.647	26.263	.1636	1439.74
75.0	-1.581	32.738	26.337	.1721	1440.00
80.0	-1.556	32.837	26.417	.1803	1440.32
85.0	-1.534	32.914	26.479	.1881	1440.63
90.0	-1.506	33.005	26.552	.1956	1440.97
95.0	-1.482	33.074	26.607	.2028	1441.26
100.0	-1.447	33.161	26.676	.2097	1441.63
105.0	-1.417	33.225	26.728	.2163	1441.95
110.0	-1.377	33.301	26.789	.2227	1442.33

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.347	33.356	26.832	.2288	1442.62
120.0	-1.322	33.413	26.878	.2347	1442.90
125.0	-1.289	33.477	26.928	.2403	1443.23
130.0	-1.252	33.541	26.979	.2458	1443.58
135.0	-1.207	33.604	27.029	.2509	1443.96
140.0	-1.170	33.643	27.060	.2559	1444.27
145.0	-1.122	33.704	27.107	.2607	1444.66
150.0	-1.090	33.739	27.135	.2653	1444.94
155.0	-1.034	33.798	27.181	.2698	1445.37
160.0	-.997	33.838	27.212	.2741	1445.68
165.0	-.947	33.892	27.253	.2782	1446.07
170.0	-.888	33.942	27.292	.2821	1446.50
175.0	-.816	34.005	27.340	.2858	1447.00
180.0	-.757	34.054	27.377	.2893	1447.43
185.0	-.706	34.103	27.415	.2926	1447.82
190.0	-.647	34.150	27.451	.2958	1448.24
195.0	-.584	34.208	27.495	.2987	1448.69
200.0	-.530	34.249	27.525	.3015	1449.08
210.0	-.413	34.337	27.592	.3067	1449.91
220.0	-.325	34.404	27.641	.3113	1450.57
230.0	-.237	34.471	27.691	.3154	1451.23
240.0	-.153	34.525	27.731	.3191	1451.86
250.0	-.098	34.568	27.763	.3225	1452.33
260.0	-.035	34.613	27.796	.3255	1452.85
266.0	-.009	34.633	27.811	.3273	1453.10

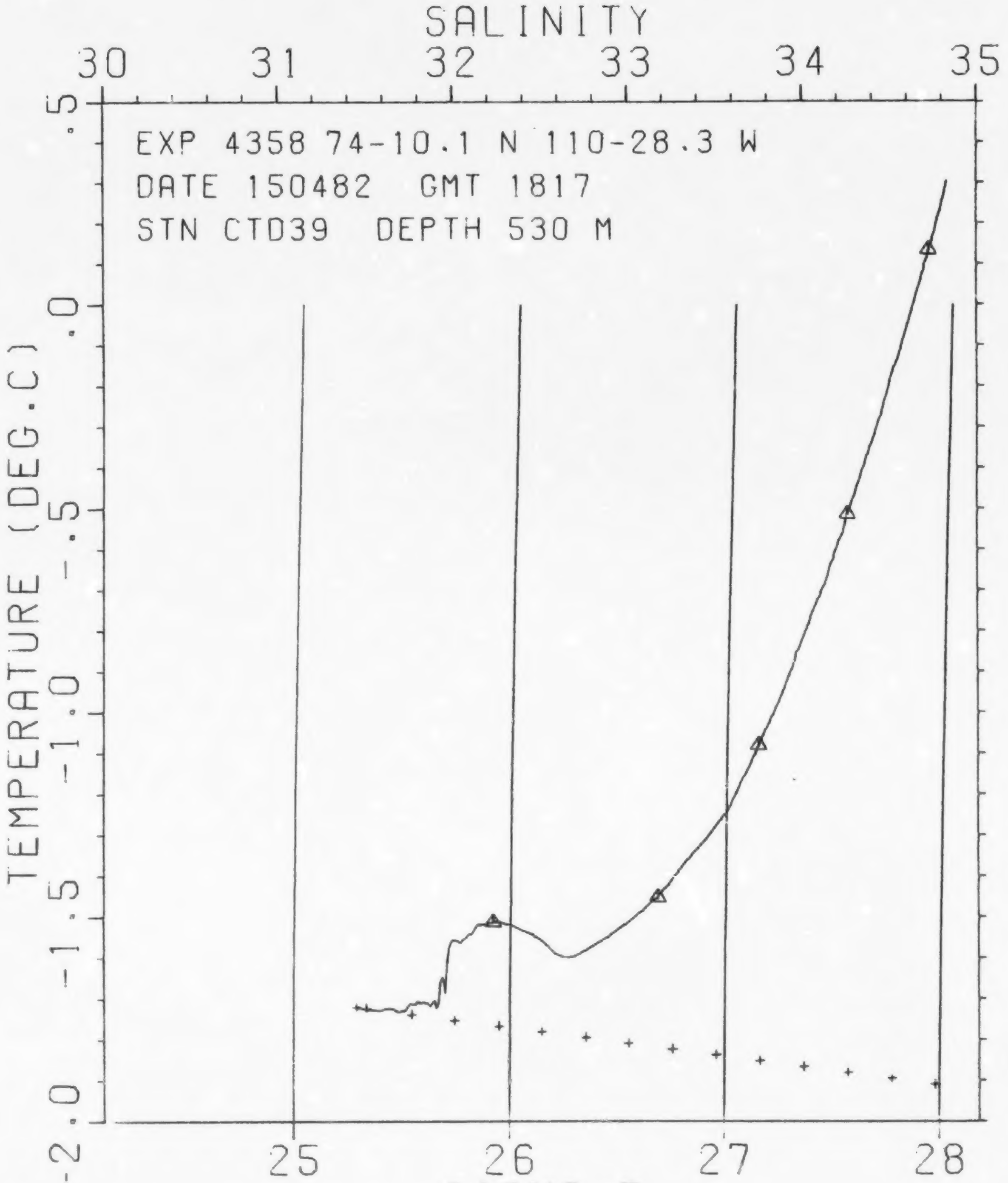

SALINITY
30
31
32
33
34
35
EXP 4357 74-10.1 N 110-28.3 W
DATE 150482 GMT 1802
STN CTD39 DEPTH 530 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

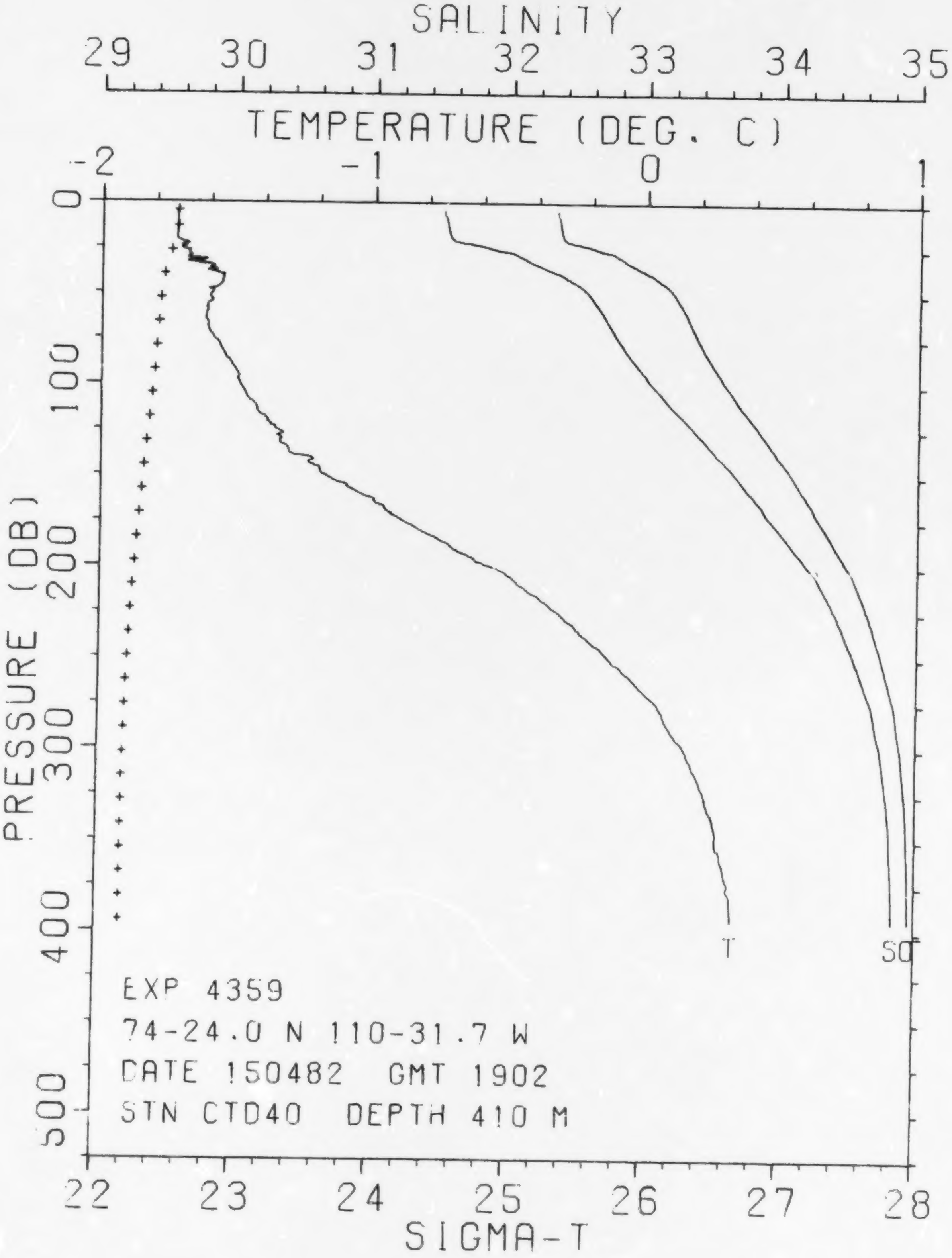

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4358
74-10.1 N 110-28.3 W
DATE 150482 GMT 1817
STN CTD39 DEPTH 530 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-62-021 WESTERN NORTH-WEST PASSAGE
STATION CTD39 EXPERIMENT NO. 4358 DATE 150482 GMT 1817
LAT. 74-10.1 N LONG. 110-28.3 W
WATER DEPTH 530.0 M ICE THICKNESS 2.1 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
4.9	-1.723	31.446	25.290	.0133	1436.36
5.0	-1.723	31.446	25.290	.0134	1436.31
6.0	-1.723	31.450	25.294	.0161	1436.38
7.0	-1.722	31.451	25.294	.0187	1436.40
8.0	-1.722	31.462	25.303	.0214	1436.43
9.0	-1.724	31.496	25.331	.0240	1436.49
10.0	-1.725	31.498	25.333	.0267	1436.50
11.0	-1.724	31.498	25.332	.0293	1436.52
12.0	-1.725	31.509	25.342	.0319	1436.55
13.0	-1.726	31.515	25.346	.0345	1436.57
14.0	-1.727	31.521	25.351	.0372	1436.59
15.0	-1.726	31.521	25.351	.0398	1436.61
16.0	-1.726	31.520	25.351	.0424	1436.63
17.0	-1.726	31.521	25.351	.0450	1436.64
18.0	-1.726	31.521	25.351	.0476	1436.66
19.0	-1.726	31.523	25.353	.0502	1436.68
20.0	-1.727	31.526	25.355	.0528	1436.70
21.0	-1.726	31.533	25.361	.0554	1436.73
22.0	-1.727	31.547	25.373	.0580	1436.76
23.0	-1.727	31.559	25.382	.0606	1436.79
24.0	-1.728	31.570	25.391	.0632	1436.82
25.0	-1.728	31.576	25.396	.0658	1436.84
27.5	-1.723	31.612	25.425	.0722	1436.96
30.0	-1.723	31.652	25.457	.0785	1437.06
32.5	-1.730	31.676	25.477	.0847	1437.10
35.0	-1.729	31.705	25.501	.0909	1437.18
37.5	-1.725	31.728	25.519	.0971	1437.28
40.0	-1.709	31.819	25.593	.1031	1437.52
42.5	-1.716	31.873	25.637	.1090	1437.60
45.0	-1.661	31.957	25.704	.1147	1438.03
47.5	-1.541	32.083	25.804	.1203	1438.81
50.0	-1.512	32.219	25.914	.1256	1439.18
55.0	-1.535	32.401	26.062	.1356	1439.41
60.0	-1.558	32.504	26.146	.1451	1439.53
65.0	-1.590	32.580	26.209	.1542	1439.57
70.0	-1.598	32.651	26.267	.1630	1439.71
75.0	-1.582	32.747	26.344	.1715	1440.00
80.0	-1.559	32.839	26.418	.1796	1440.32
85.0	-1.532	32.932	26.493	.1874	1440.66
90.0	-1.508	33.012	26.558	.1949	1440.97
95.0	-1.485	33.080	26.612	.2020	1441.26
100.0	-1.452	33.171	26.685	.2089	1441.62
105.0	-1.421	33.239	26.739	.2155	1441.95

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
110.0	-1.377	33.309	26.795	.2218	1442.33
115.0	-1.346	33.368	26.842	.2279	1442.65
120.0	-1.323	33.420	26.883	.2337	1442.91
125.0	-1.284	33.494	26.942	.2394	1443.28
130.0	-1.251	33.552	26.988	.2447	1443.60
135.0	-1.208	33.611	27.035	.2499	1443.96
140.0	-1.165	33.658	27.072	.2549	1444.31
145.0	-1.116	33.713	27.115	.2596	1444.70
150.0	-1.081	33.751	27.144	.2642	1445.00
155.0	-1.025	33.812	27.191	.2686	1445.43
160.0	-.983	33.856	27.225	.2728	1445.77
165.0	-.927	33.910	27.267	.2769	1446.19
170.0	-.878	33.952	27.299	.2807	1446.56
175.0	-.814	34.009	27.343	.2844	1447.02
180.0	-.749	34.064	27.385	.2879	1447.48
185.0	-.699	34.111	27.421	.2912	1447.86
190.0	-.627	34.172	27.468	.2943	1448.36
195.0	-.576	34.212	27.498	.2972	1448.74
200.0	-.514	34.259	27.533	.3000	1449.17
210.0	-.397	34.349	27.600	.3050	1450.00
220.0	-.320	34.411	27.647	.3095	1450.60
230.0	-.230	34.477	27.695	.3136	1451.27
240.0	-.146	34.537	27.740	.3173	1451.91
250.0	-.086	34.576	27.768	.3206	1452.40
260.0	-.035	34.616	27.798	.3236	1452.85
270.0	.012	34.650	27.823	.3264	1453.28
280.0	.056	34.675	27.841	.3290	1453.68
290.0	.101	34.705	27.862	.3313	1454.09
300.0	.134	34.727	27.879	.3336	1454.43
310.0	.165	34.750	27.896	.3356	1454.77
320.0	.184	34.764	27.905	.3376	1455.04
330.0	.211	34.781	27.918	.3394	1455.35
340.0	.232	34.796	27.928	.3412	1455.63
350.0	.249	34.804	27.934	.3428	1455.88
360.0	.265	34.815	27.942	.3445	1456.13
370.0	.278	34.819	27.945	.3460	1456.36
380.0	.292	34.827	27.950	.3475	1456.60
390.0	.301	34.832	27.954	.3490	1456.81
393.5	.304	34.833	27.955	.3495	1456.88

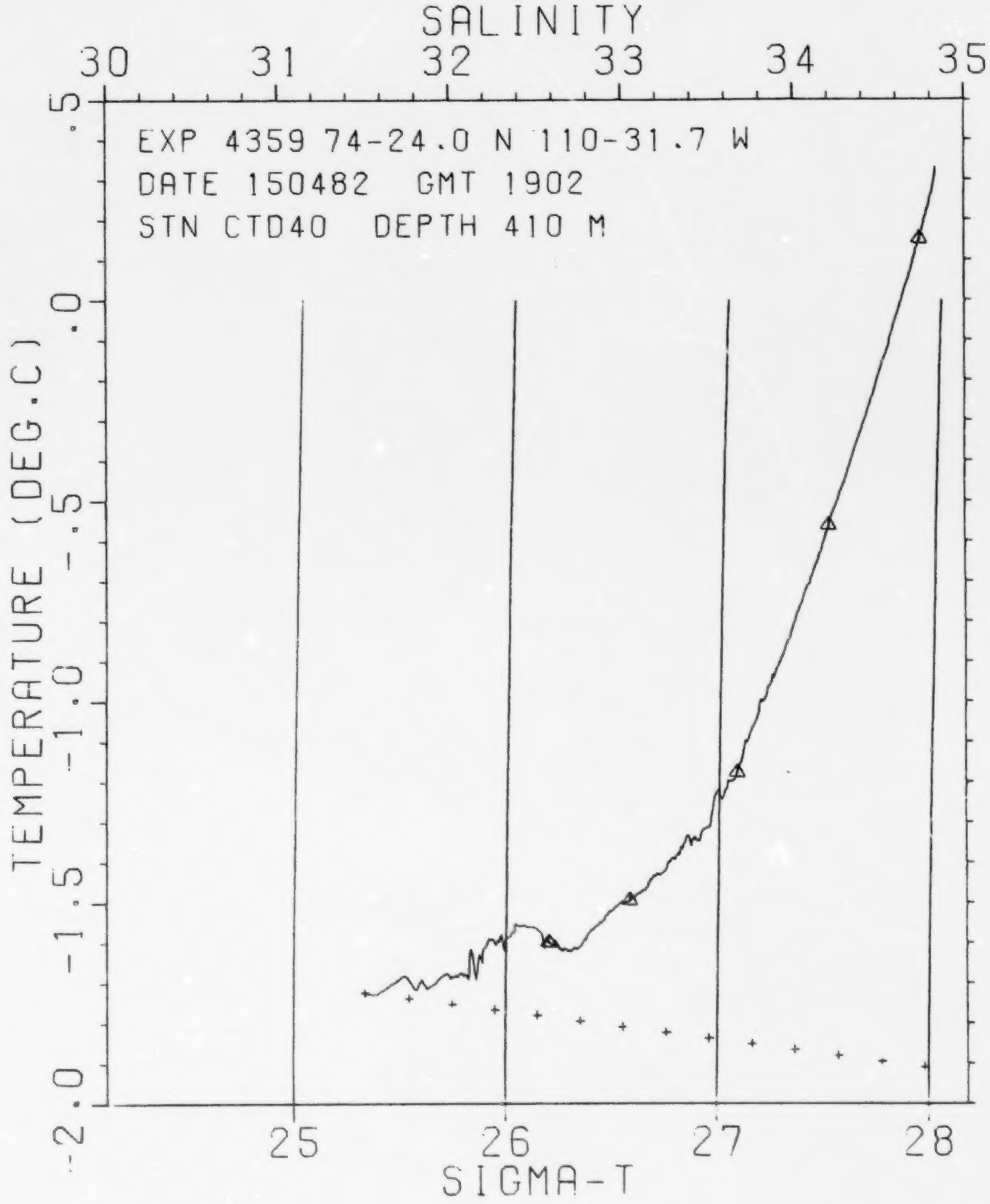

SALINITY
30
31
32
33
34
35
EXP 4358 74-10.1 N 110-28.3 W
DATE 150482 GMT 1817
STN CTD39 DEPTH 530 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

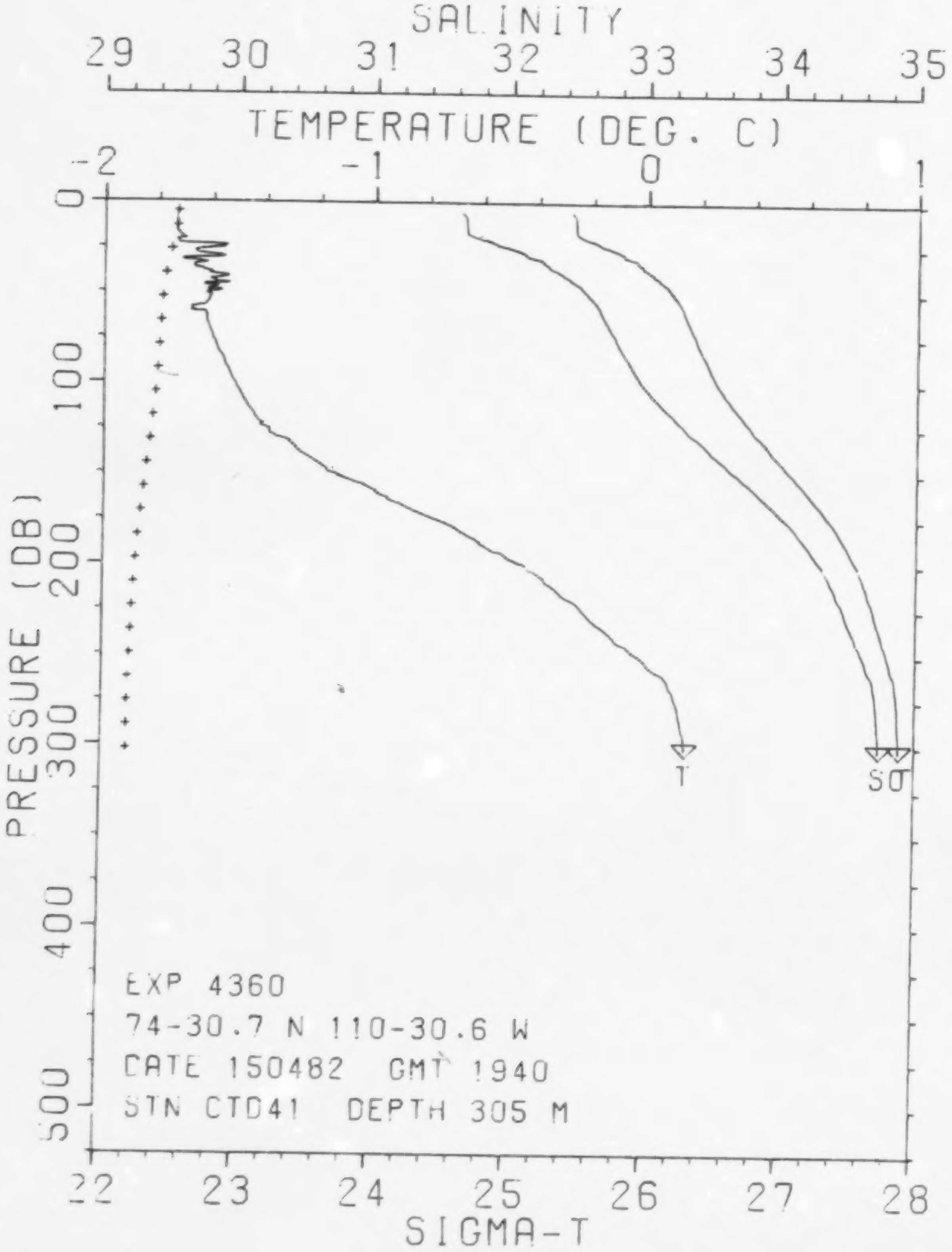

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4359
74-24.0 N 110-31.7 W
DATE 150482 GMT 1902
STN CTD40 DEPTH 410 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD40 EXPERIMENT NO. 4359 DATE 150482 GMT 1902
LAT. 74-24.0 N LONG. 110-31.7 W
WATER DEPTH 410.0 M ICE THICKNESS 2.1 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
4.3	-1.730	31.502	25.336	.0114	1436.39
5.0	-1.729	31.501	25.335	.0131	1436.41
6.0	-1.730	31.503	25.337	.0158	1436.42
7.0	-1.728	31.504	25.337	.0184	1436.45
8.0	-1.727	31.517	25.348	.0210	1436.49
9.0	-1.726	31.524	25.354	.0236	1436.52
10.0	-1.726	31.524	25.354	.0262	1436.54
11.0	-1.727	31.527	25.356	.0288	1436.55
12.0	-1.727	31.529	25.357	.0315	1436.57
13.0	-1.727	31.531	25.360	.0341	1436.59
14.0	-1.727	31.534	25.361	.0367	1436.61
15.0	-1.726	31.536	25.364	.0393	1436.63
16.0	-1.728	31.541	25.367	.0419	1436.65
17.0	-1.727	31.539	25.366	.0445	1436.67
18.0	-1.727	31.549	25.374	.0470	1436.69
19.0	-1.729	31.554	25.378	.0496	1436.71
20.0	-1.728	31.564	25.386	.0522	1436.75
21.0	-1.725	31.584	25.402	.0548	1436.80
22.0	-1.706	31.647	25.453	.0573	1437.00
23.0	-1.681	31.734	25.524	.0598	1437.26
24.0	-1.717	31.801	25.579	.0622	1437.20
25.0	-1.709	31.857	25.624	.0646	1437.33
27.5	-1.683	32.012	25.750	.0703	1437.71
30.0	-1.683	32.077	25.802	.0759	1437.85
32.5	-1.670	32.142	25.855	.0812	1438.04
35.0	-1.595	32.221	25.917	.0865	1438.55
37.5	-1.591	32.303	25.984	.0916	1438.72
40.0	-1.551	32.375	26.042	.0966	1439.05
42.5	-1.557	32.439	26.093	.1014	1439.16
45.0	-1.564	32.495	26.139	.1061	1439.25
47.5	-1.587	32.538	26.174	.1107	1439.24
50.0	-1.598	32.571	26.202	.1152	1439.27
55.0	-1.601	32.619	26.241	.1242	1439.41
60.0	-1.611	32.670	26.282	.1329	1439.51
65.0	-1.618	32.704	26.310	.1414	1439.61
70.0	-1.610	32.748	26.346	.1498	1439.79
75.0	-1.593	32.788	26.378	.1581	1440.01
80.0	-1.565	32.835	26.415	.1661	1440.29
85.0	-1.546	32.882	26.453	.1740	1440.53
90.0	-1.524	32.935	26.495	.1817	1440.79
95.0	-1.497	32.994	26.543	.1892	1441.08
100.0	-1.494	33.042	26.582	.1965	1441.25
105.0	-1.473	33.109	26.636	.2036	1441.52

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
110.0	-1.444	33.162	26.678	.2104	1441.81
115.0	-1.428	33.228	26.730	.2170	1442.06
120.0	-1.386	33.294	26.783	.2234	1442.44
125.0	-1.358	33.357	26.833	.2295	1442.74
130.0	-1.336	33.425	26.887	.2353	1443.02
135.0	-1.315	33.483	26.934	.2409	1443.28
140.0	-1.231	33.542	26.979	.2464	1443.84
145.0	-1.218	33.612	27.036	.2515	1444.08
150.0	-1.176	33.670	27.082	.2564	1444.44
155.0	-1.097	33.722	27.121	.2612	1444.97
160.0	-1.046	33.781	27.167	.2657	1445.37
165.0	-.992	33.834	27.208	.2700	1445.78
170.0	-.945	33.877	27.241	.2741	1446.14
175.0	-.892	33.930	27.282	.2781	1446.54
180.0	-.826	33.989	27.327	.2818	1447.02
185.0	-.756	34.044	27.369	.2854	1447.50
190.0	-.706	34.092	27.406	.2887	1447.88
195.0	-.635	34.153	27.453	.2919	1448.38
200.0	-.562	34.206	27.492	.2949	1448.88
210.0	-.464	34.292	27.557	.3003	1449.61
220.0	-.361	34.368	27.614	.3052	1450.35
230.0	-.281	34.430	27.660	.3096	1450.97
240.0	-.207	34.484	27.701	.3136	1451.55
250.0	-.130	34.543	27.744	.3172	1452.15
260.0	-.054	34.593	27.781	.3204	1452.73
270.0	.012	34.640	27.815	.3233	1453.27
280.0	.071	34.684	27.847	.3259	1453.76
290.0	.100	34.705	27.863	.3282	1454.09
300.0	.152	34.738	27.887	.3304	1454.53
310.0	.181	34.761	27.903	.3324	1454.86
320.0	.211	34.778	27.915	.3343	1455.18
330.0	.233	34.794	27.927	.3360	1455.47
340.0	.260	34.807	27.936	.3377	1455.77
350.0	.269	34.814	27.941	.3393	1455.98
360.0	.288	34.821	27.946	.3409	1456.24
370.0	.305	34.829	27.951	.3424	1456.50
380.0	.325	34.833	27.953	.3439	1456.76
390.0	.329	34.834	27.954	.3453	1456.94
394.1	.329	34.837	27.957	.3459	1457.01


SALINITY
30
31
32
33
34
35
EXP 4359 74-24.0 N 110-31.7 W
DATE 150482 GMT 1902
STN CTD40 DEPTH 410 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

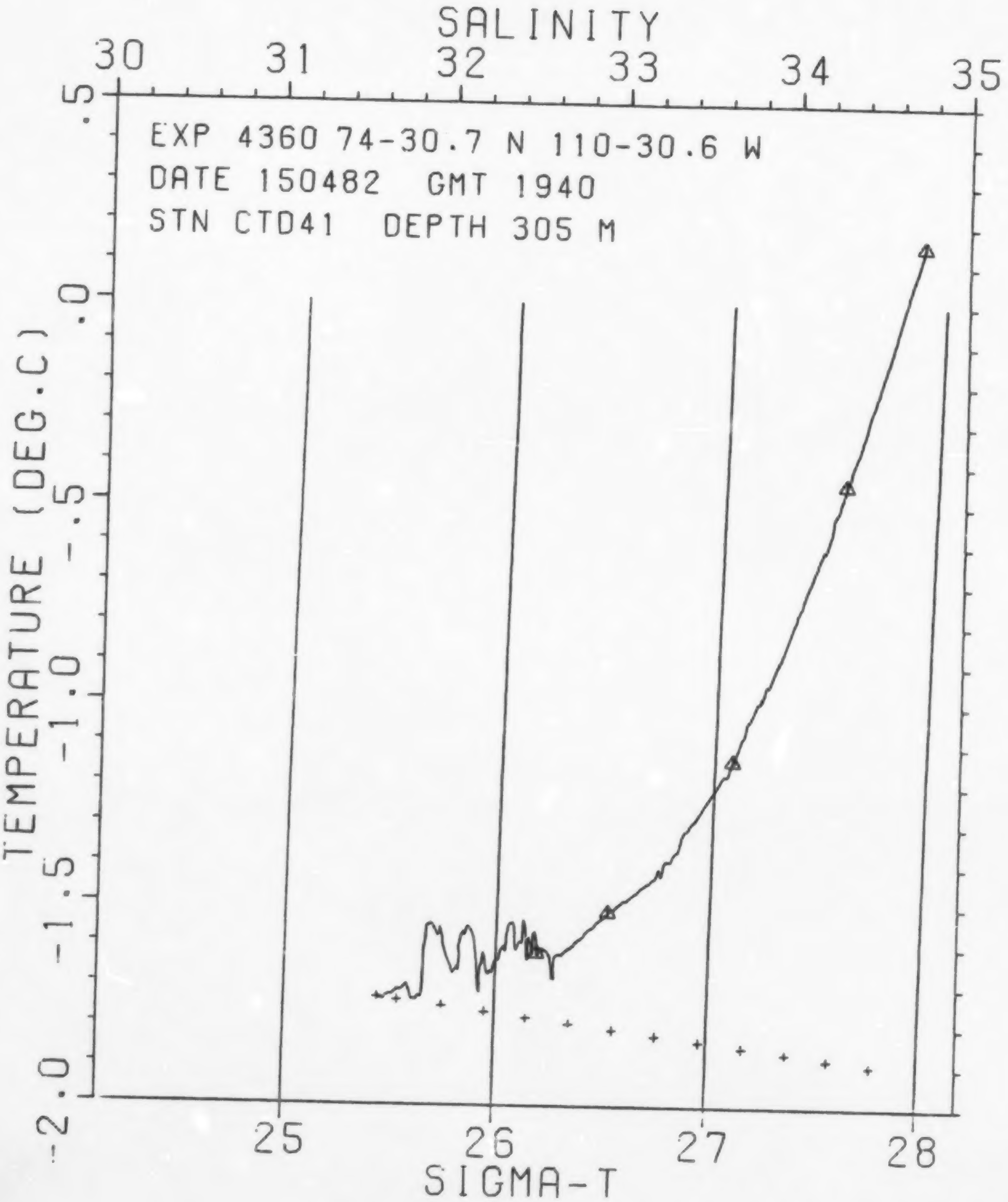

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4360
74-30.7 N 110-30.6 W
DATE 150482 GMT 1940
STN CTD41 DEPTH 305 M
22
23
24
25
26
27
28
SIGMA-T

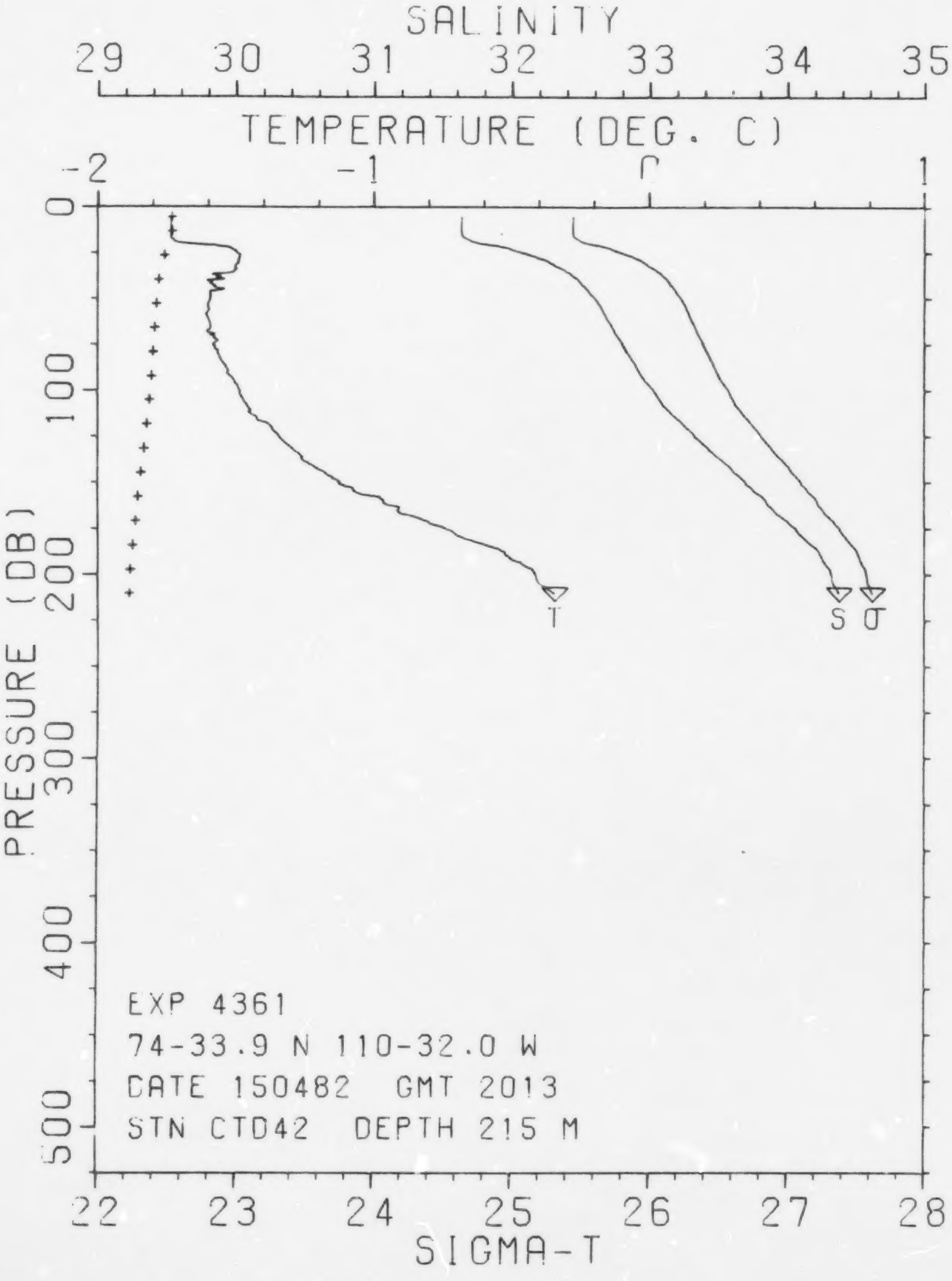
CRUISE 015-62-021 WESTERN NORTH-WEST PASSAGE
STATION CTD41 EXPERIMENT NO. 4360 DATE 150482 GMT 1940
LAT. 74-30.7 N LONG. 110-30.6 W
WATER DEPTH 305.4 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.1	-1.734	31.632	25.442	.0130	1436.57
6.0	-1.733	31.631	25.441	.0152	1436.59
7.0	-1.733	31.652	25.458	.0177	1436.63
8.0	-1.735	31.661	25.465	.0203	1436.65
9.0	-1.735	31.664	25.468	.0228	1436.67
10.0	-1.736	31.664	25.468	.0253	1436.69
11.0	-1.735	31.664	25.467	.0278	1436.71
12.0	-1.737	31.666	25.469	.0303	1436.72
13.0	-1.736	31.666	25.469	.0328	1436.74
14.0	-1.736	31.666	25.469	.0353	1436.75
15.0	-1.737	31.669	25.472	.0378	1436.77
16.0	-1.737	31.671	25.473	.0403	1436.79
17.0	-1.734	31.676	25.477	.0427	1436.83
18.0	-1.724	31.694	25.492	.0452	1436.91
19.0	-1.719	31.728	25.519	.0477	1437.00
20.0	-1.711	31.769	25.553	.0501	1437.11
21.0	-1.732	31.830	25.602	.0525	1437.12
22.0	-1.733	31.863	25.629	.0549	1437.16
23.0	-1.732	31.891	25.652	.0572	1437.24
24.0	-1.556	31.916	25.669	.0595	1438.12
25.0	-1.569	31.990	25.729	.0618	1438.18
27.5	-1.665	32.082	25.806	.0674	1437.89
30.0	-1.564	32.130	25.843	.0728	1438.49
32.5	-1.705	32.232	25.929	.0780	1438.00
35.0	-1.671	32.275	25.963	.0831	1438.26
37.5	-1.635	32.327	26.004	.0882	1438.55
40.0	-1.610	32.378	26.045	.0931	1438.78
42.5	-1.587	32.431	26.088	.0979	1439.00
45.0	-1.538	32.479	26.125	.1026	1439.34
47.5	-1.590	32.522	26.161	.1073	1439.20
50.0	-1.615	32.558	26.191	.1118	1439.17
55.0	-1.616	32.616	26.238	.1208	1439.33
60.0	-1.666	32.655	26.272	.1295	1439.22
65.0	-1.622	32.690	26.299	.1381	1439.57
70.0	-1.611	32.728	26.330	.1466	1439.76
75.0	-1.600	32.769	26.363	.1549	1439.95
80.0	-1.585	32.798	26.386	.1631	1440.14
85.0	-1.565	32.841	26.420	.1711	1440.38
90.0	-1.553	32.881	26.452	.1790	1440.56
95.0	-1.536	32.922	26.485	.1867	1440.80
100.0	-1.517	32.964	26.519	.1943	1441.03
105.0	-1.499	33.022	26.565	.2017	1441.27
110.0	-1.480	33.085	26.616	.2088	1441.53

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.457	33.151	26.669	.2157	1441.82
120.0	-1.435	33.216	26.721	.2224	1442.09
125.0	-1.395	33.283	26.774	.2288	1442.46
130.0	-1.365	33.360	26.836	.2349	1442.79
135.0	-1.296	33.436	26.896	.2407	1443.30
140.0	-1.255	33.503	26.949	.2463	1443.67
145.0	-1.201	33.585	27.013	.2516	1444.13
150.0	-1.147	33.662	27.074	.2566	1444.57
155.0	-1.064	33.745	27.139	.2613	1445.15
160.0	-.993	33.819	27.196	.2657	1445.67
165.0	-.934	33.888	27.250	.2698	1446.13
170.0	-.859	33.963	27.308	.2737	1446.66
175.0	-.772	34.032	27.360	.2773	1447.25
180.0	-.695	34.099	27.411	.2807	1447.78
185.0	-.641	34.147	27.448	.2839	1448.18
190.0	-.591	34.203	27.491	.2869	1448.57
195.0	-.515	34.252	27.527	.2897	1449.07
200.0	-.446	34.302	27.564	.2923	1449.54
210.0	-.367	34.370	27.616	.2971	1450.17
220.0	-.268	34.437	27.665	.3015	1450.88
230.0	-.203	34.468	27.703	.3055	1451.42
240.0	-.120	34.553	27.752	.3090	1452.05
250.0	-.028	34.610	27.792	.3122	1452.71
260.0	.056	34.671	27.838	.3149	1453.35
270.0	.102	34.700	27.858	.3174	1453.76
280.0	.123	34.717	27.871	.3196	1454.04
281.0	.125	34.718	27.872	.3199	1454.07
282.0	.125	34.720	27.874	.3201	1454.09
283.0	.128	34.719	27.873	.3203	1454.12
284.0	.128	34.721	27.874	.3205	1454.14
285.0	.131	34.721	27.874	.3207	1454.17
286.0	.131	34.723	27.876	.3210	1454.19
287.0	.134	34.723	27.876	.3212	1454.22
288.0	.135	34.723	27.875	.3214	1454.24
289.0	.135	34.725	27.877	.3216	1454.26
290.0	.137	34.727	27.878	.3218	1454.28
291.0	.136	34.729	27.880	.3220	1454.30
292.0	.141	34.728	27.879	.3222	1454.34
293.0	.143	34.730	27.881	.3225	1454.36
294.0	.147	34.733	27.883	.3227	1454.40
295.0	.147	34.733	27.883	.3229	1454.42
296.0	.149	34.734	27.884	.3231	1454.44
297.0	.149	34.735	27.884	.3233	1454.46
298.0	.149	34.734	27.884	.3235	1454.48
299.0	.149	34.736	27.885	.3237	1454.50
300.0	.149	34.735	27.885	.3239	1454.51
301.0	.152	34.735	27.884	.3242	1454.54
302.0	.151	34.736	27.885	.3244	1454.56
302.6	.151	34.736	27.885	.3245	1454.57

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
302.6	.151	34.736	27.885	.3245	1454.57

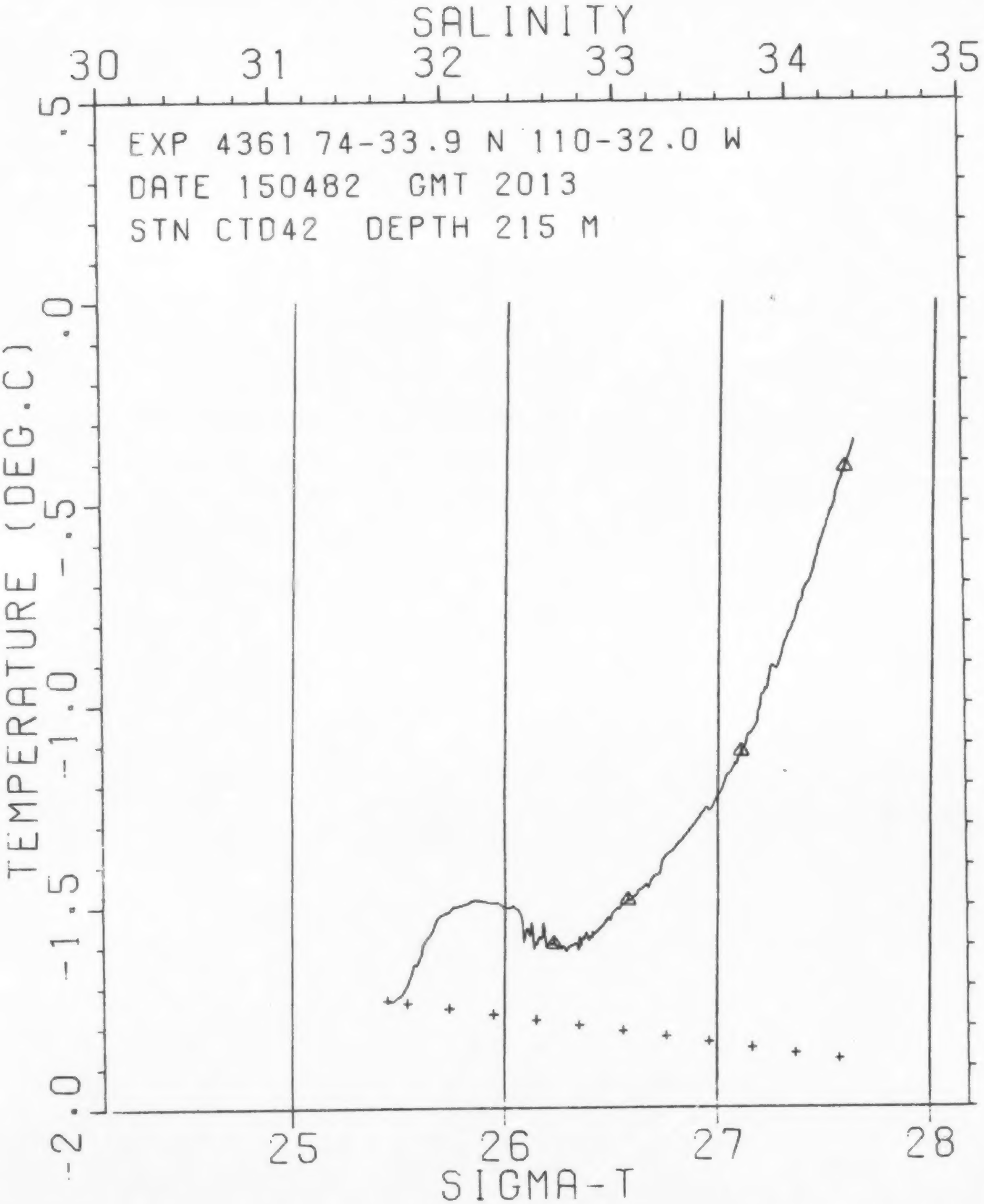

SALINITY
30
31
32
33
34
35
EXP 4360 74-30.7 N 110-30.6 W
DATE 150482 GMT 1940
STN CTD41 DEPTH 305 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

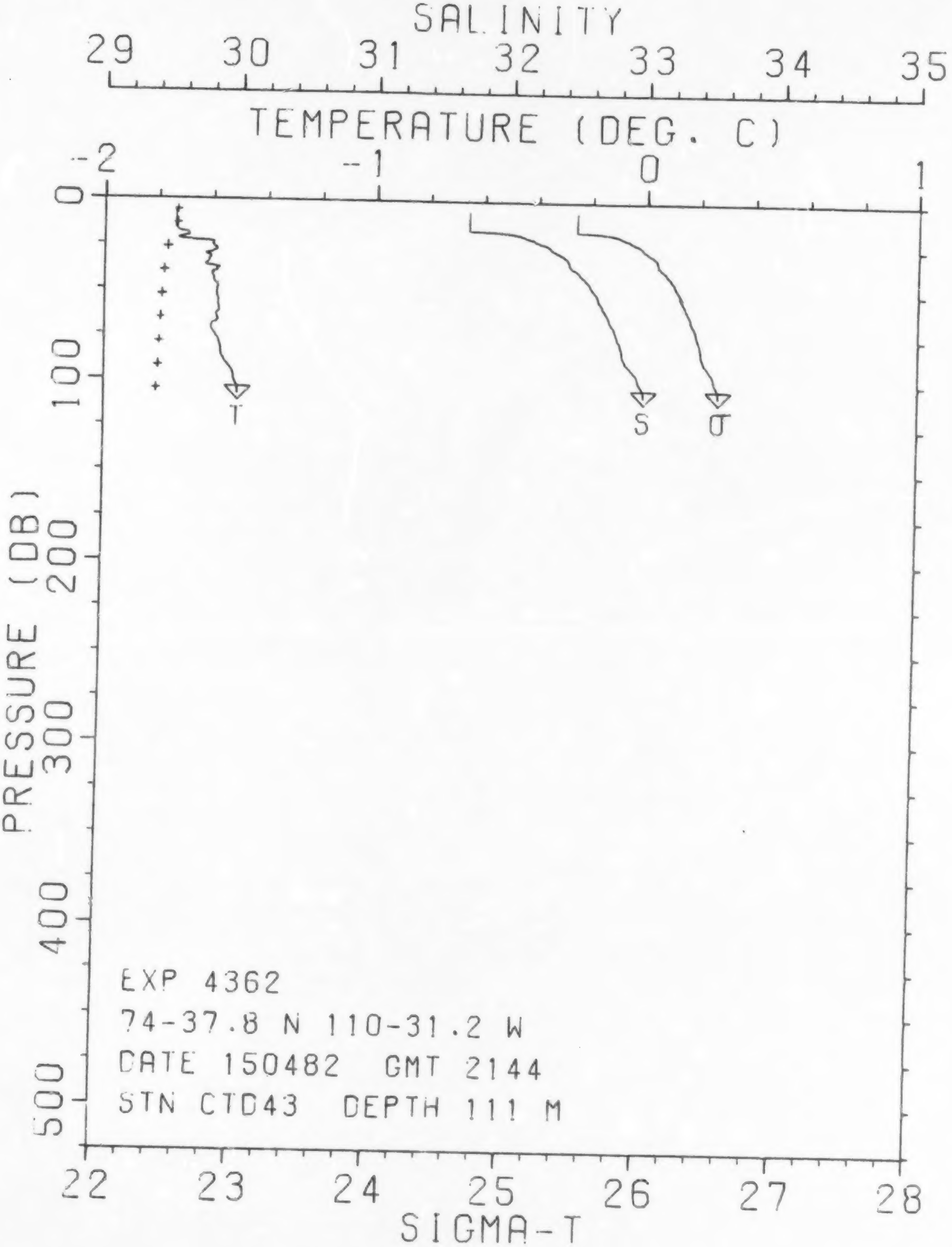

SALINITY
29 30 31 32 33 34 35
TEMPERATURE (DEG. C)
-2 -1 0 1
PRESSURE (DB)
0 100 200 300 400 500
T
S
σ
EXP 4361
74-33.9 N 110-32.0 W
DATE 150482 GMT 2013
STN CTD42 DEPTH 215 M
22 23 24 25 26 27 28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD42 EXPERIMENT NO. 4361 DATE 150482 GMT 2013
LAT. 74-33.9 N LONG. 110-32.0 W
WATER DEPTH 214.5 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.734	31.639	25.447	.0136	1436.58
6.0	-1.735	31.639	25.447	.0151	1436.59
7.0	-1.735	31.638	25.447	.0176	1436.61
8.0	-1.735	31.639	25.447	.0202	1436.62
9.0	-1.734	31.638	25.446	.0227	1436.64
10.0	-1.734	31.637	25.446	.0252	1436.66
11.0	-1.735	31.639	25.448	.0277	1436.67
12.0	-1.735	31.639	25.448	.0303	1436.69
13.0	-1.733	31.636	25.445	.0328	1436.71
14.0	-1.736	31.640	25.448	.0353	1436.72
15.0	-1.735	31.642	25.450	.0378	1436.74
16.0	-1.735	31.644	25.451	.0403	1436.76
17.0	-1.734	31.662	25.466	.0428	1436.80
18.0	-1.727	31.692	25.490	.0453	1436.90
19.0	-1.719	31.721	25.513	.0478	1436.99
20.0	-1.664	31.782	25.562	.0502	1437.36
21.0	-1.575	31.882	25.641	.0526	1437.94
22.0	-1.522	31.949	25.694	.0549	1438.30
23.0	-1.512	31.998	25.734	.0572	1438.43
24.0	-1.498	32.032	25.761	.0594	1438.56
25.0	-1.494	32.087	25.806	.0616	1438.67
27.5	-1.484	32.169	25.888	.0670	1438.90
30.0	-1.490	32.274	25.958	.0721	1439.04
32.5	-1.506	32.329	26.003	.0772	1439.08
35.0	-1.508	32.398	26.059	.0821	1439.21
37.5	-1.560	32.443	26.097	.0869	1439.07
40.0	-1.605	32.492	26.137	.0916	1438.96
42.5	-1.584	32.515	26.156	.0962	1439.13
45.0	-1.539	32.550	26.183	.1008	1439.44
47.5	-1.593	32.576	26.205	.1053	1439.26
50.0	-1.593	32.609	26.232	.1098	1439.35
55.0	-1.600	32.655	26.270	.1185	1439.46
60.0	-1.603	32.689	26.297	.1271	1439.57
65.0	-1.592	32.733	26.333	.1356	1439.77
70.0	-1.597	32.768	26.361	.1439	1439.88
75.0	-1.582	32.809	26.395	.1521	1440.09
80.0	-1.566	32.851	26.428	.1601	1440.30
85.0	-1.547	32.895	26.463	.1679	1440.54
90.0	-1.525	32.928	26.489	.1756	1440.77
95.0	-1.506	32.975	26.528	.1832	1441.01
100.0	-1.485	33.037	26.577	.1905	1441.28
105.0	-1.475	33.079	26.611	.1976	1441.47
110.0	-1.452	33.131	26.652	.2046	1441.73

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.423	33.199	26.707	.2113	1442.05
120.0	-1.372	33.268	26.761	.2178	1442.47
125.0	-1.343	33.334	26.814	.2239	1442.77
130.0	-1.309	33.405	26.871	.2299	1443.12
135.0	-1.268	33.477	26.928	.2356	1443.50
140.0	-1.233	33.559	26.993	.2409	1443.85
145.0	-1.174	33.624	27.044	.2460	1444.30
150.0	-1.119	33.703	27.106	.2509	1444.75
155.0	-1.070	33.767	27.157	.2555	1445.16
160.0	-.963	33.850	27.220	.2597	1445.86
165.0	-.911	33.905	27.262	.2638	1446.26
170.0	-.826	33.981	27.321	.2676	1446.84
175.0	-.739	34.067	27.387	.2712	1447.45
180.0	-.676	34.125	27.431	.2745	1447.90
185.0	-.572	34.199	27.487	.2775	1448.57
189.0	-.521	34.243	27.520	.2798	1448.94
190.0	-.512	34.253	27.528	.2803	1449.01
191.0	-.504	34.257	27.531	.2809	1449.07
192.0	-.496	34.265	27.537	.2814	1449.13
193.0	-.482	34.270	27.540	.2819	1449.22
194.0	-.463	34.282	27.549	.2825	1449.34
195.0	-.457	34.286	27.552	.2830	1449.39
196.0	-.443	34.299	27.562	.2835	1449.49
197.0	-.424	34.313	27.573	.2840	1449.61
198.0	-.420	34.321	27.579	.2845	1449.66
199.0	-.415	34.320	27.578	.2850	1449.70
200.0	-.415	34.325	27.581	.2855	1449.72
201.0	-.414	34.328	27.584	.2860	1449.74
202.0	-.408	34.329	27.585	.2865	1449.79
203.0	-.404	34.331	27.586	.2870	1449.82
204.0	-.404	34.332	27.587	.2874	1449.85
205.0	-.398	34.338	27.591	.2879	1449.90
206.0	-.391	34.344	27.596	.2884	1449.95
207.0	-.375	34.354	27.603	.2889	1450.06
208.0	-.365	34.362	27.610	.2894	1450.13
209.0	-.358	34.371	27.617	.2898	1450.19
210.0	-.349	34.375	27.619	.2903	1450.26
210.7	-.342	34.379	27.622	.2906	1450.31

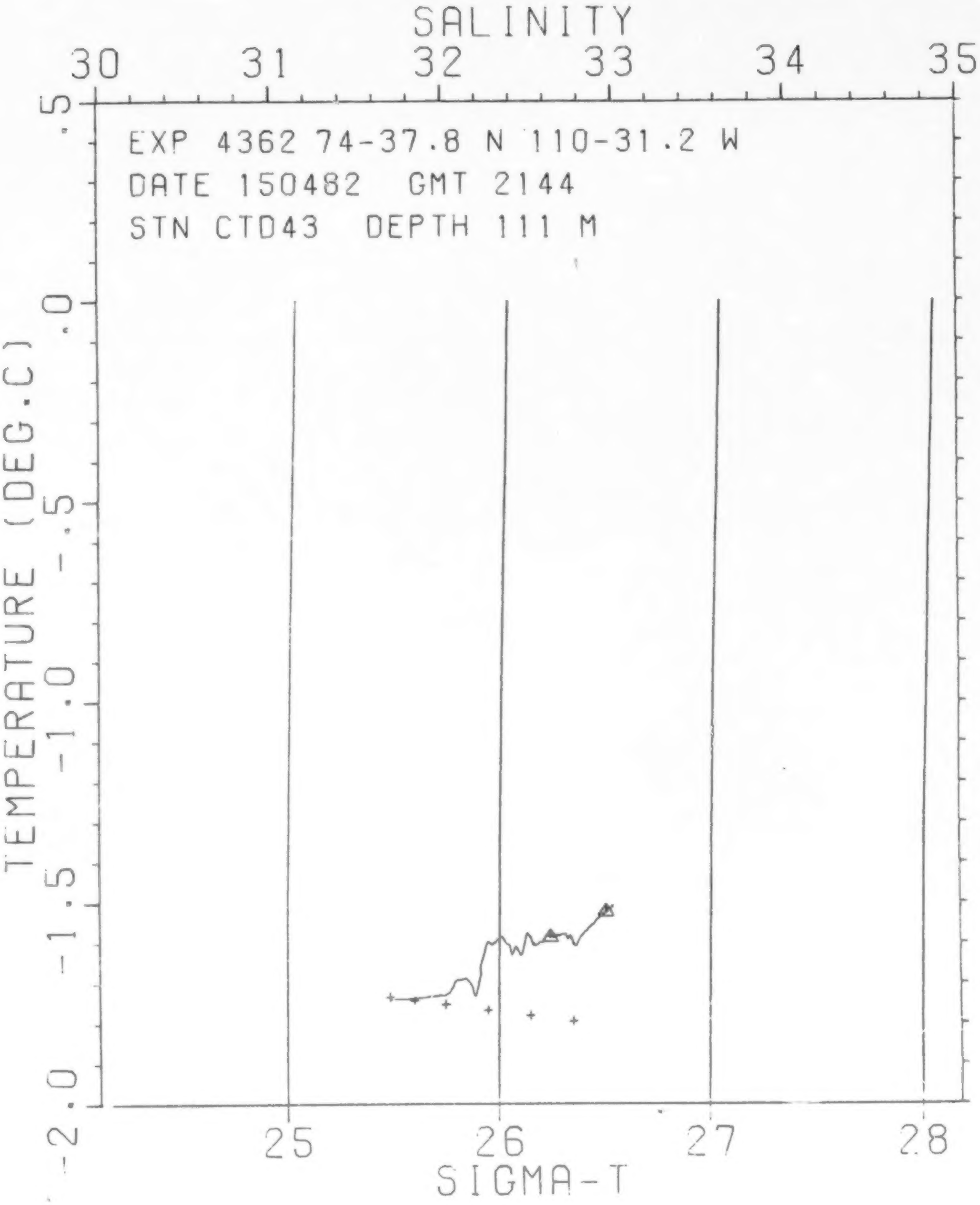

SALINITY
30
31
32
33
34
35
EXP 4361 74-33.9 N 110-32.0 W
DATE 150482 GMT 2013
STN CTD42 DEPTH 215 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

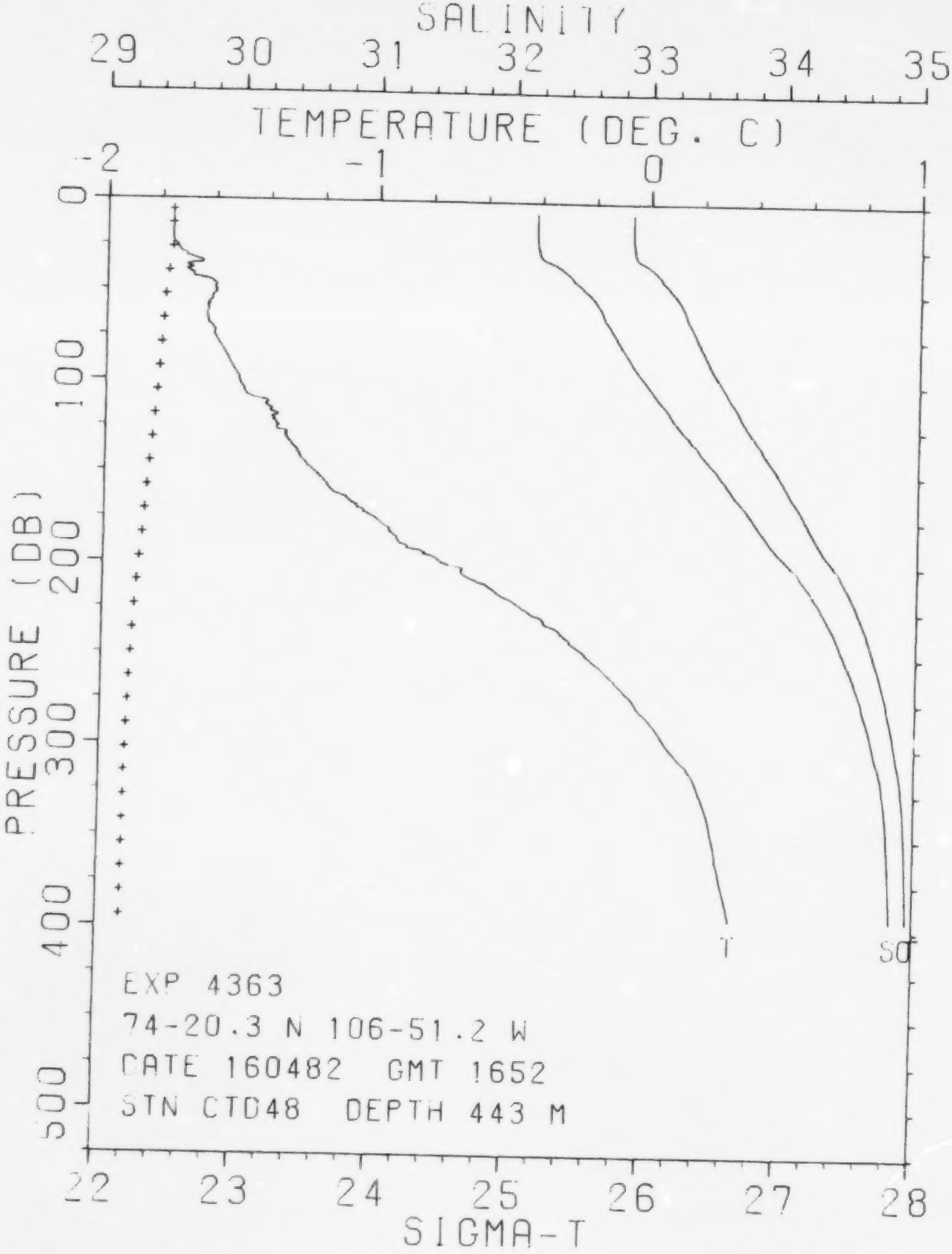


EXP 4362
74-37.8 N 110-31.2 W
DATE 150482 GMT 2144
STN CTD43 DEPTH 111 M

```
CRUISE 015-82-021  WESTERN NORTH-WEST PASSAGE
STATION CTD43  EXPERIMENT NO.   4362   DATE 150482 GMT 2144
LAT. 74-37.8 N   LONG. 110-31.2 W
WATER DEPTH  111.1 M   ICE THICKNESS *** M


PRESSURE    TEMP    SALINITY   SIGMAT     DHA      SOUND
 (DBARS)  (DEG.C)                       (DYN M)    (M/S)

    5.8    -1.740    31.683    25.483    .0144    1436.63
    6.0    -1.740    31.683    25.483    .0149    1436.54
    7.0    -1.740    31.683    25.483    .0174    1436.65
    8.0    -1.739    31.683    25.483    .0199    1436.66
    9.0    -1.739    31.683    25.483    .0224    1436.68
   10.0    -1.739    31.683    25.483    .0249    1436.70
   11.0    -1.738    31.682    25.482    .0274    1436.72
   12.0    -1.738    31.682    25.482    .0298    1436.73
   13.0    -1.739    31.682    25.482    .0323    1436.75
   14.0    -1.739    31.683    25.483    .0348    1436.76
   15.0    -1.739    31.684    25.484    .0373    1436.78
   16.0    -1.739    31.683    25.483    .0398    1436.80
   17.0    -1.731    31.925    25.679    .0422    1437.19
   18.0    -1.721    32.031    25.765    .0445    1437.40
   19.0    -1.690    32.062    25.806    .0467    1437.64
   20.0    -1.688    32.113    25.832    .0488    1437.71
   21.0    -1.708    32.165    25.874    .0510    1437.70
   22.0    -1.732    32.187    25.892    .0531    1437.64
   23.0    -1.662    32.212    25.912    .0551    1438.02
   24.0    -1.596    32.261    25.950    .0572    1438.42
   25.0    -1.604    32.281    25.966    .0592    1438.42
   27.5    -1.586    32.329    26.005    .0643    1438.62
   30.0    -1.613    32.368    26.054    .0692    1438.62
   32.5    -1.607    32.421    26.080    .0740    1438.73
   35.0    -1.617    32.431    26.098    .0788    1438.74
   37.5    -1.589    32.476    26.124    .0835    1438.98
   40.0    -1.587    32.510    26.151    .0882    1439.07
   42.5    -1.603    32.549    26.184    .0927    1439.09
   45.0    -1.596    32.581    26.210    .0973    1439.21
   47.5    -1.583    32.596    26.221    .1017    1439.34
   50.0    -1.585    32.620    26.241    .1062    1439.40
   55.0    -1.581    32.652    26.267    .1149    1439.55
   60.0    -1.577    32.693    26.300    .1235    1439.70
   65.0    -1.589    32.727    26.328    .1320    1439.78
   70.0    -1.605    32.764    26.359    .1403    1439.84
   75.0    -1.591    32.787    26.377    .1485    1440.02
   80.0    -1.576    32.814    26.398    .1566    1440.21
   85.0    -1.570    32.826    26.408    .1647    1440.33
   86.0    -1.568    32.827    26.409    .1663    1440.36
   87.0    -1.568    32.837    26.417    .1679    1440.39
   88.0    -1.562    32.843    26.421    .1695    1440.45
   89.0    -1.561    32.850    26.427    .1711    1440.48
   90.0    -1.557    32.861    26.436    .1726    1440.53
```

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
91.0	-1.551	32.876	26.448	.1742	1440.60
92.0	-1.544	32.887	26.457	.1758	1440.66
93.0	-1.539	32.898	26.466	.1773	1440.72
94.0	-1.534	32.909	26.475	.1789	1440.77
95.0	-1.529	32.926	26.488	.1804	1440.83
96.0	-1.527	32.934	26.494	.1819	1440.87
97.0	-1.524	32.938	26.498	.1834	1440.90
98.0	-1.523	32.940	26.500	.1849	1440.93
99.0	-1.523	32.944	26.502	.1865	1440.95
100.0	-1.523	32.946	26.504	.1880	1440.97
101.0	-1.520	32.955	26.511	.1895	1441.01
102.0	-1.517	32.967	26.521	.1910	1441.06
103.0	-1.513	32.975	26.527	.1925	1441.11
104.0	-1.511	32.980	26.532	.1940	1441.14
105.0	-1.508	32.962	26.533	.1954	1441.17
106.0	-1.508	32.986	26.536	.1969	1441.19
107.0	-1.508	32.985	26.535	.1984	1441.21
107.7	-1.509	32.985	26.535	.1994	1441.22

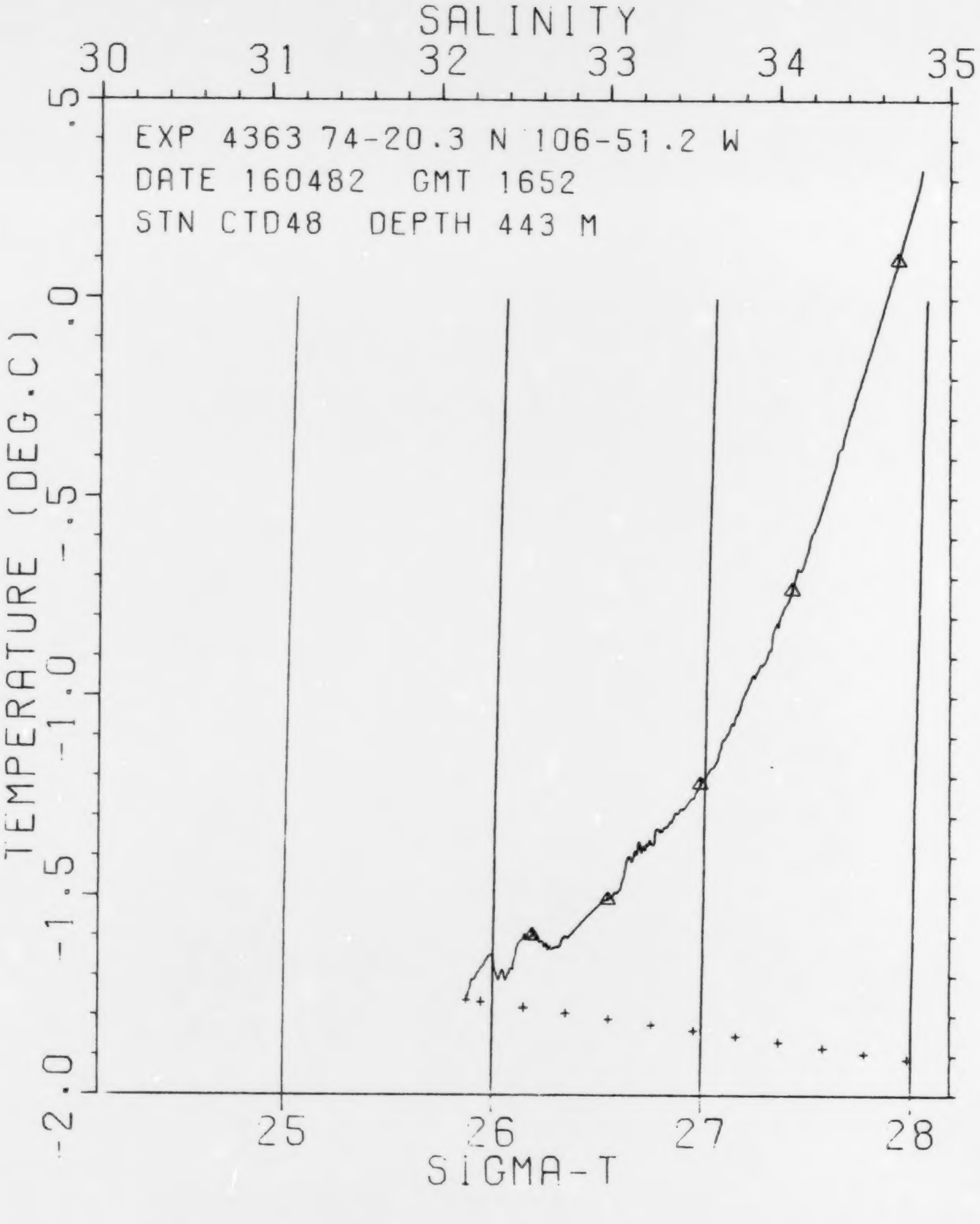

SALINITY
30
31
32
33
34
35
EXP 4362 74-37.8 N 110-31.2 W
DATE 150482 GMT 2144
STN CTD43 DEPTH 111 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

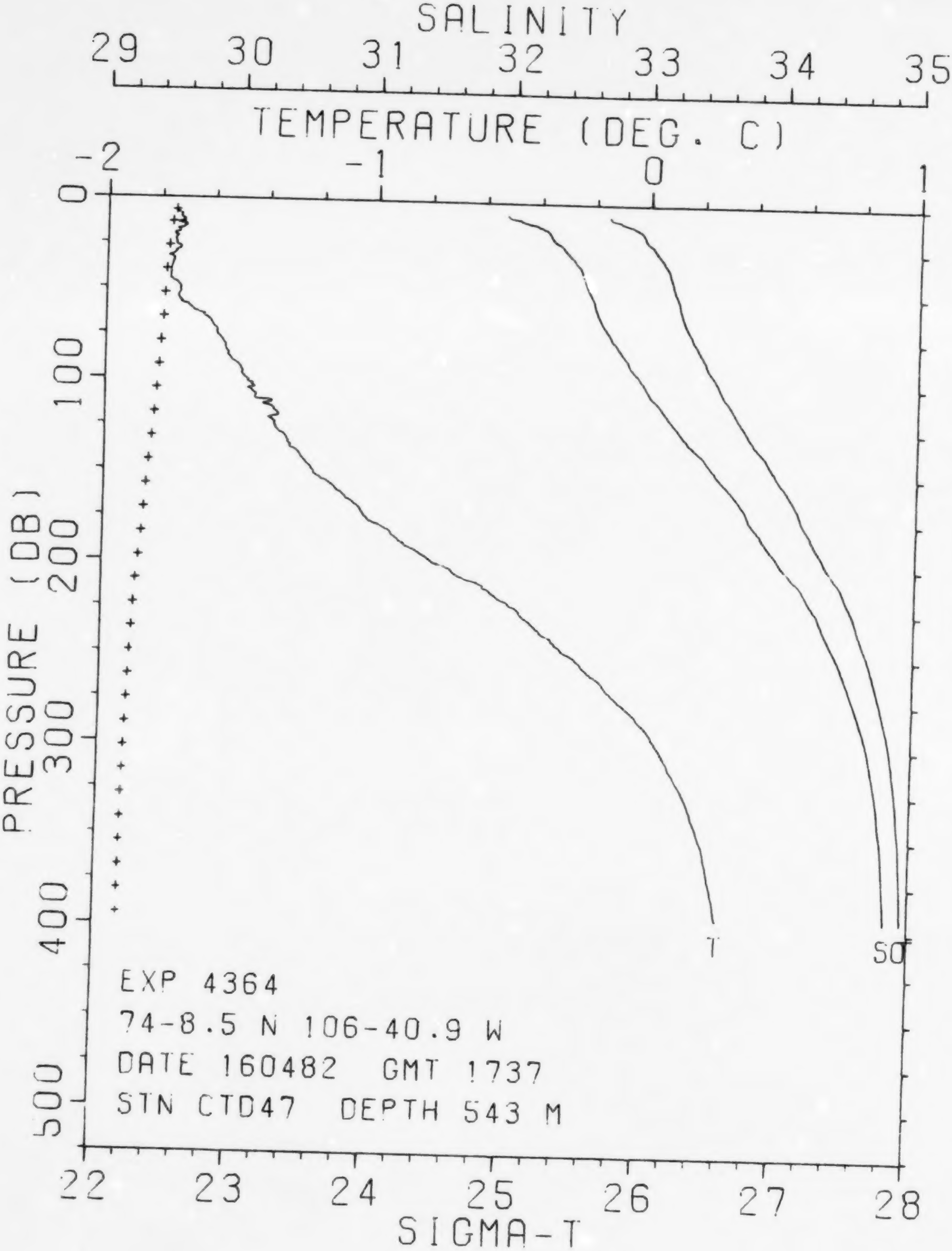

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4363
74-20.3 N 106-51.2 W
DATE 160482 GMT 1652
STN CTD48 DEPTH 443 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD48 EXPERIMENT NO. 4363 DATE 160482 GMT 1652
LAT. 74-20.3 N LONG. 106-51.2 W
WATER DEPTH 443.0 M ICE THICKNESS 2.2 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.8	-1.760	32.163	25.873	.0124	1437.20
6.0	-1.761	32.164	25.875	.0127	1437.20
7.0	-1.761	32.163	25.874	.0148	1437.22
8.0	-1.761	32.163	25.873	.0169	1437.24
9.0	-1.760	32.163	25.873	.0191	1437.25
10.0	-1.760	32.162	25.873	.0212	1437.27
11.0	-1.761	32.163	25.874	.0233	1437.29
12.0	-1.761	32.162	25.873	.0254	1437.30
13.0	-1.761	32.162	25.873	.0275	1437.32
14.0	-1.760	32.162	25.873	.0296	1437.33
15.0	-1.760	32.162	25.873	.0318	1437.35
16.0	-1.761	32.164	25.875	.0339	1437.37
17.0	-1.761	32.164	25.874	.0360	1437.38
18.0	-1.761	32.164	25.874	.0381	1437.40
19.0	-1.761	32.166	25.876	.0402	1437.42
20.0	-1.761	32.165	25.875	.0423	1437.43
21.0	-1.762	32.167	25.877	.0444	1437.45
22.0	-1.761	32.167	25.877	.0466	1437.47
23.0	-1.760	32.172	25.881	.0487	1437.50
24.0	-1.756	32.174	25.882	.0508	1437.53
25.0	-1.751	32.175	25.883	.0529	1437.58
27.5	-1.736	32.181	25.886	.0581	1437.70
30.0	-1.713	32.198	25.901	.0634	1437.87
32.5	-1.683	32.247	25.940	.0686	1438.13
35.0	-1.646	32.319	25.998	.0736	1438.44
37.5	-1.692	32.368	26.039	.0786	1438.33
40.0	-1.699	32.407	26.071	.0834	1438.40
42.5	-1.684	32.438	26.095	.0882	1438.55
45.0	-1.615	32.475	26.124	.0929	1438.97
47.5	-1.594	32.513	26.154	.0976	1439.17
50.0	-1.599	32.551	26.185	.1021	1439.24
55.0	-1.614	32.610	26.233	.1111	1439.33
60.0	-1.632	32.654	26.269	.1199	1439.39
65.0	-1.631	32.678	26.289	.1285	1439.51
70.0	-1.609	32.725	26.327	.1370	1439.76
75.0	-1.604	32.764	26.359	.1453	1439.92
80.0	-1.584	32.806	26.392	.1535	1440.16
85.0	-1.561	32.851	26.428	.1615	1440.41
90.0	-1.544	32.889	26.458	.1693	1440.63
95.0	-1.524	32.940	26.499	.1770	1440.88
100.0	-1.508	32.994	26.543	.1845	1441.11
105.0	-1.491	33.046	26.585	.1917	1441.34
110.0	-1.433	33.100	26.627	.1988	1441.78

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.386	33.155	26.670	.2057	1442.16
120.0	-1.389	33.198	26.705	.2124	1442.28
125.0	-1.370	33.253	26.749	.2189	1442.53
130.0	-1.330	33.312	26.796	.2251	1442.89
135.0	-1.312	33.375	26.846	.2312	1443.14
140.0	-1.279	33.423	26.884	.2370	1443.45
145.0	-1.258	33.485	26.934	.2427	1443.71
150.0	-1.221	33.539	26.977	.2481	1444.05
155.0	-1.187	33.589	27.016	.2533	1444.36
160.0	-1.160	33.636	27.053	.2583	1444.63
165.0	-1.096	33.695	27.099	.2631	1445.10
170.0	-1.044	33.749	27.141	.2677	1445.50
175.0	-.998	33.797	27.178	.2722	1445.86
180.0	-.950	33.842	27.213	.2765	1446.23
185.0	-.917	33.894	27.254	.2806	1446.54
190.0	-.884	33.945	27.294	.2845	1446.85
195.0	-.794	34.008	27.341	.2882	1447.44
200.0	-.730	34.076	27.394	.2916	1447.91
210.0	-.612	34.181	27.474	.2979	1448.77
220.0	-.490	34.275	27.545	.3035	1449.63
230.0	-.378	34.351	27.601	.3085	1450.42
240.0	-.291	34.418	27.651	.3129	1451.08
250.0	-.212	34.473	27.692	.3170	1451.68
260.0	-.136	34.534	27.737	.3207	1452.28
270.0	-.068	34.582	27.772	.3240	1452.82
280.0	-.014	34.620	27.800	.3270	1453.28
290.0	.050	34.664	27.833	.3297	1453.80
300.0	.096	34.698	27.857	.3322	1454.22
310.0	.159	34.736	27.885	.3344	1454.72
320.0	.200	34.764	27.905	.3364	1455.11
330.0	.224	34.782	27.916	.3382	1455.41
340.0	.246	34.797	27.929	.3400	1455.70
350.0	.260	34.807	27.936	.3416	1455.94
360.0	.275	34.815	27.941	.3432	1456.18
370.0	.289	34.821	27.946	.3448	1456.41
380.0	.305	34.828	27.950	.3463	1456.66
390.0	.321	34.834	27.955	.3478	1456.90
394.6	.328	34.837	27.957	.3484	1457.02

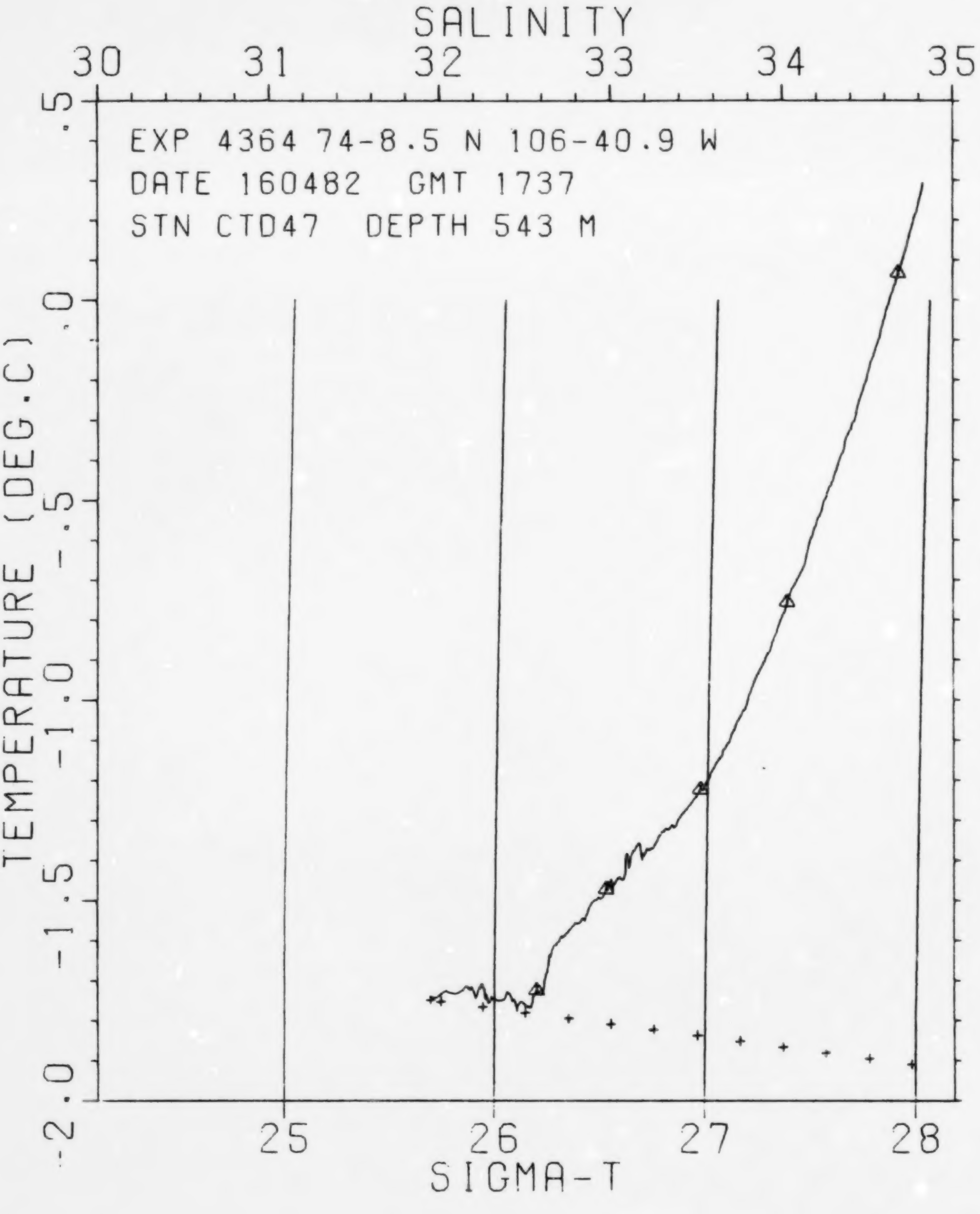

SALINITY
30
31
32
33
34
35
EXP 4363 74-20.3 N 106-51.2 W
DATE 160482 GMT 1652
STN CTD48 DEPTH 443 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

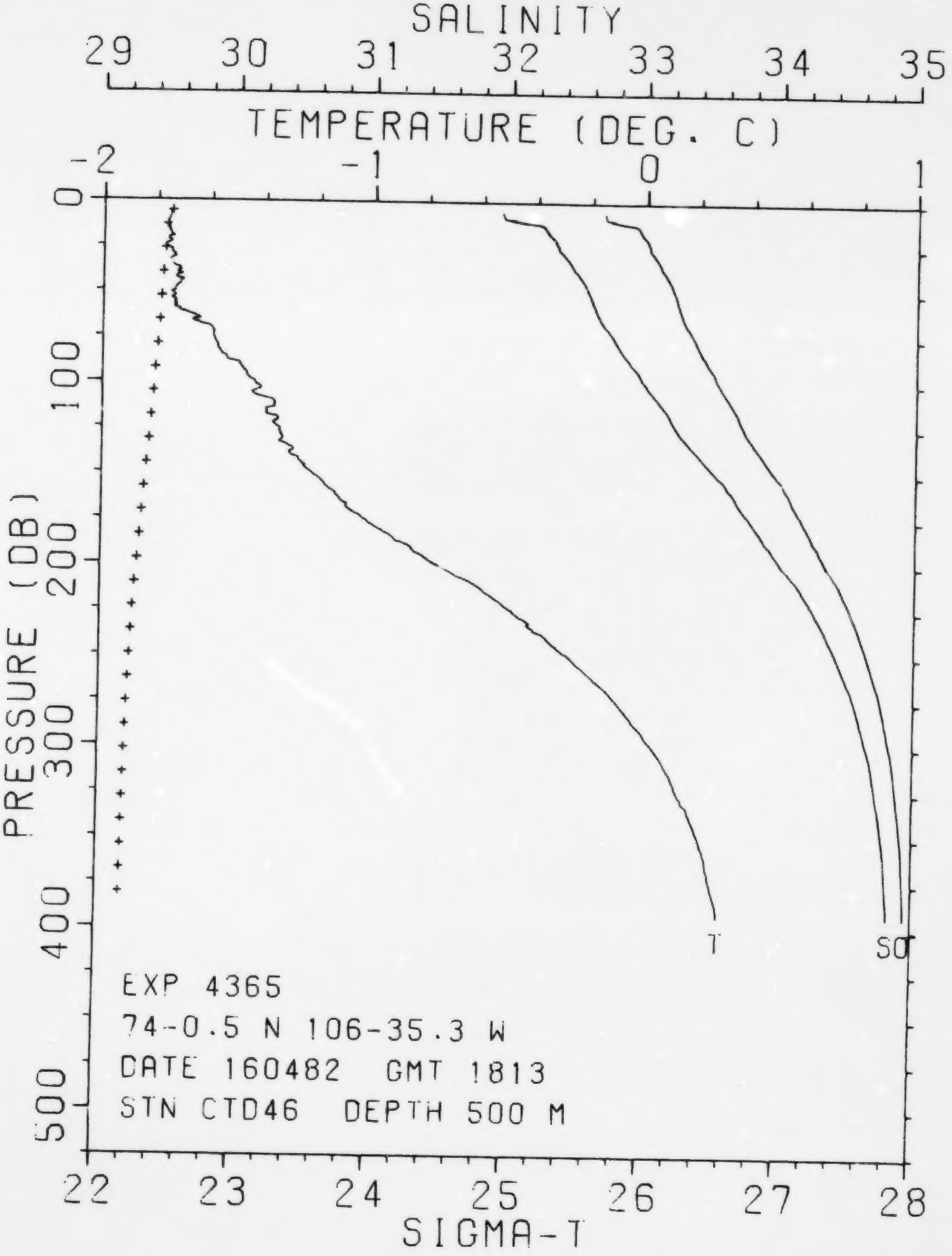

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4364
74-8.5 N 106-40.9 W
DATE 160482 GMT 1737
STN CTD47 DEPTH 543 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD47 EXPERIMENT NO. 4364 DATE 160482 GMT 1737
LAT. 74-08.5 N LONG. 106-40.9 W
WATER DEPTH 543.0 M ICE THICKNESS 2.1 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
6.6	-1.748	31.944	25.695	.0153	1436.97
7.0	-1.743	31.946	25.697	.0162	1437.00
8.0	-1.738	31.957	25.706	.0185	1437.05
9.0	-1.729	32.014	25.752	.0207	1437.19
10.0	-1.731	32.056	25.786	.0229	1437.26
11.0	-1.732	32.097	25.820	.0251	1437.33
12.0	-1.713	32.156	25.867	.0273	1437.52
13.0	-1.719	32.182	25.888	.0294	1437.54
14.0	-1.745	32.214	25.914	.0315	1437.48
15.0	-1.707	32.244	25.938	.0335	1437.72
16.0	-1.720	32.257	25.949	.0356	1437.69
17.0	-1.724	32.263	25.954	.0376	1437.70
18.0	-1.740	32.272	25.962	.0396	1437.65
19.0	-1.736	32.277	25.966	.0417	1437.70
20.0	-1.757	32.287	25.974	.0437	1437.63
21.0	-1.751	32.298	25.983	.0457	1437.68
22.0	-1.748	32.323	26.003	.0477	1437.75
23.0	-1.753	32.347	26.023	.0497	1437.78
24.0	-1.749	32.356	26.030	.0517	1437.83
25.0	-1.748	32.369	26.041	.0536	1437.87
27.5	-1.729	32.399	26.065	.0585	1438.04
30.0	-1.750	32.432	26.092	.0633	1438.03
32.5	-1.774	32.452	26.109	.0680	1437.98
35.0	-1.753	32.468	26.137	.0727	1438.17
37.5	-1.760	32.501	26.146	.0774	1438.20
40.0	-1.765	32.513	26.158	.0820	1438.23
42.5	-1.767	32.529	26.171	.0866	1438.29
45.0	-1.769	32.538	26.178	.0912	1438.33
47.5	-1.735	32.550	26.188	.0957	1438.55
50.0	-1.725	32.568	26.202	.1002	1438.66
55.0	-1.737	32.597	26.226	.1092	1438.73
60.0	-1.695	32.618	26.242	.1180	1439.04
65.0	-1.642	32.648	26.265	.1268	1439.41
70.0	-1.604	32.690	26.298	.1354	1439.74
75.0	-1.588	32.730	26.331	.1438	1439.95
80.0	-1.562	32.782	26.372	.1521	1440.23
85.0	-1.548	32.832	26.412	.1602	1440.44
90.0	-1.530	32.867	26.441	.1681	1440.66
95.0	-1.493	32.927	26.488	.1759	1441.00
100.0	-1.472	32.973	26.525	.1834	1441.25
105.0	-1.476	33.013	26.558	.1908	1441.37
110.0	-1.449	33.076	26.608	.1980	1441.67
115.0	-1.380	33.127	26.647	.2050	1442.15

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
120.0	-1.375	33.177	26.688	.2117	1442.32
125.0	-1.372	33.233	26.733	.2183	1442.50
130.0	-1.337	33.291	26.779	.2247	1442.83
135.0	-1.316	33.350	26.827	.2308	1443.09
140.0	-1.281	33.425	26.886	.2367	1443.44
145.0	-1.255	33.474	26.925	.2423	1443.72
150.0	-1.224	33.524	26.965	.2478	1444.01
155.0	-1.178	33.592	27.018	.2530	1444.40
160.0	-1.138	33.649	27.063	.2580	1444.75
165.0	-1.091	33.701	27.104	.2628	1445.13
170.0	-1.050	33.744	27.137	.2674	1445.46
175.0	-1.026	33.776	27.162	.2719	1445.70
180.0	-.964	33.833	27.206	.2763	1446.15
185.0	-.922	33.876	27.240	.2804	1446.49
190.0	-.880	33.929	27.281	.2844	1446.84
195.0	-.815	33.981	27.320	.2882	1447.30
200.0	-.758	34.031	27.359	.2918	1447.72
210.0	-.610	34.157	27.455	.2983	1448.74
220.0	-.510	34.237	27.515	.3041	1449.48
230.0	-.426	34.312	27.572	.3094	1450.13
240.0	-.341	34.373	27.617	.3142	1450.78
250.0	-.259	34.446	27.672	.3185	1451.42
260.0	-.189	34.499	27.711	.3224	1451.98
270.0	-.118	34.548	27.747	.3259	1452.54
280.0	-.044	34.598	27.784	.3291	1453.11
290.0	.021	34.648	27.821	.3320	1453.64
300.0	.064	34.660	27.844	.3346	1454.05
310.0	.103	34.707	27.864	.3369	1454.43
320.0	.142	34.733	27.883	.3391	1454.80
330.0	.176	34.756	27.900	.3412	1455.16
340.0	.201	34.770	27.909	.3431	1455.45
350.0	.225	34.791	27.925	.3449	1455.75
360.0	.246	34.801	27.932	.3465	1456.03
370.0	.258	34.812	27.940	.3482	1456.26
380.0	.274	34.818	27.945	.3497	1456.50
390.0	.287	34.825	27.949	.3513	1456.74
394.3	.292	34.830	27.953	.3519	1456.84

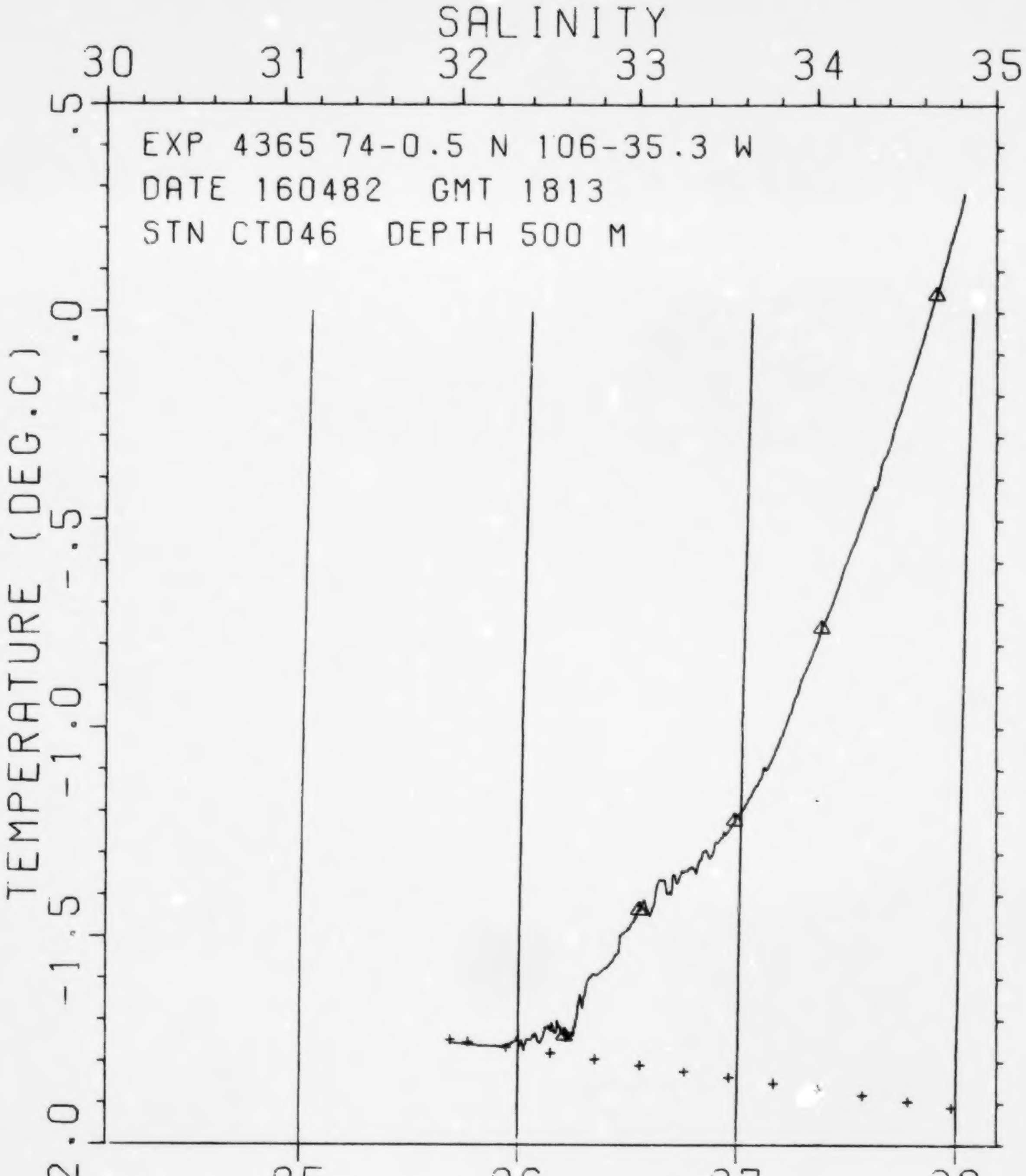

SALINITY
30
31
32
33
34
35
EXP 4364 74-8.5 N 106-40.9 W
DATE 160482 GMT 1737
STN CTD47 DEPTH 543 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

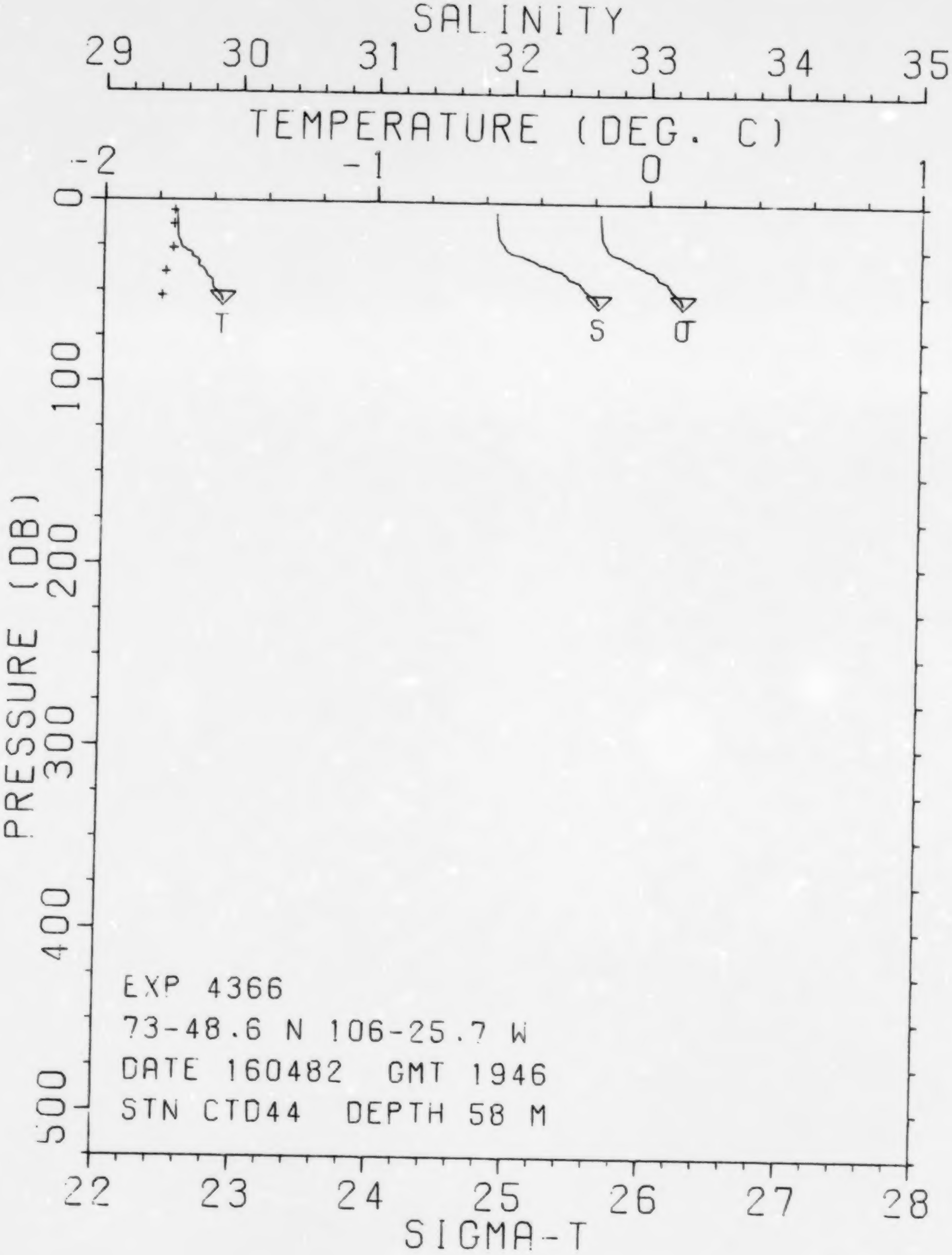

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4365
74-0.5 N 106-35.3 W
DATE 160482 GMT 1813
STN CTD46 DEPTH 500 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD46 EXPERIMENT NO. 4365 DATE 160482 GMT 1813
LAT. 74-00.5 N LONG. 106-35.3 W
WATER DEPTH 500.0 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.756	31.936	25.689	.0126	1436.90
6.0	-1.755	31.937	25.690	.0137	1436.91
7.0	-1.754	31.936	25.689	.0160	1436.93
8.0	-1.755	31.948	25.699	.0183	1436.96
9.0	-1.754	31.945	25.696	.0206	1436.98
10.0	-1.756	31.988	25.731	.0229	1437.04
11.0	-1.762	32.101	25.823	.0251	1437.19
12.0	-1.763	32.200	25.904	.0272	1437.34
13.0	-1.761	32.243	25.939	.0293	1437.43
14.0	-1.761	32.254	25.947	.0313	1437.46
15.0	-1.760	32.258	25.951	.0333	1437.49
16.0	-1.760	32.270	25.960	.0354	1437.52
17.0	-1.757	32.276	25.966	.0374	1437.56
18.0	-1.752	32.290	25.977	.0394	1437.62
19.0	-1.752	32.305	25.989	.0414	1437.66
20.0	-1.738	32.316	25.997	.0434	1437.76
21.0	-1.764	32.330	26.009	.0454	1437.67
22.0	-1.761	32.335	26.014	.0474	1437.71
23.0	-1.750	32.340	26.017	.0494	1437.78
24.0	-1.762	32.349	26.025	.0514	1437.76
25.0	-1.775	32.353	26.028	.0533	1437.72
27.5	-1.744	32.375	26.045	.0583	1437.93
30.0	-1.734	32.401	26.067	.0631	1438.06
32.5	-1.754	32.432	26.092	.0679	1438.05
35.0	-1.745	32.453	26.109	.0726	1438.16
37.5	-1.714	32.471	26.123	.0774	1438.37
40.0	-1.724	32.506	26.152	.0820	1438.42
42.5	-1.733	32.527	26.169	.0866	1438.44
45.0	-1.719	32.550	26.187	.0912	1438.59
47.5	-1.728	32.564	26.199	.0957	1438.60
50.0	-1.737	32.581	26.213	.1002	1438.62
55.0	-1.735	32.606	26.233	.1091	1438.75
60.0	-1.721	32.634	26.255	.1179	1438.94
65.0	-1.644	32.667	26.281	.1266	1439.43
70.0	-1.598	32.719	26.322	.1351	1439.81
75.0	-1.593	32.768	26.362	.1434	1439.98
80.0	-1.575	32.807	26.393	.1516	1440.20
85.0	-1.558	32.851	26.428	.1596	1440.43
90.0	-1.492	32.904	26.469	.1674	1440.90
95.0	-1.465	32.957	26.512	.1750	1441.18
100.0	-1.436	32.999	26.545	.1825	1441.46
105.0	-1.435	33.048	26.585	.1897	1441.61
110.0	-1.369	33.107	26.631	.1968	1442.09

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.398	33.162	26.676	.2036	1442.11
120.0	-1.348	33.194	26.700	.2103	1442.47
125.0	-1.347	33.236	26.735	.2169	1442.62
130.0	-1.334	33.266	26.775	.2232	1442.83
135.0	-1.316	33.346	26.823	.2294	1443.08
140.0	-1.301	33.409	26.874	.2353	1443.32
145.0	-1.259	33.468	26.920	.2410	1443.68
150.0	-1.221	33.530	26.970	.2464	1444.03
155.0	-1.181	33.598	27.023	.2516	1444.40
160.0	-1.142	33.647	27.061	.2566	1444.73
165.0	-1.114	33.684	27.090	.2615	1445.00
170.0	-1.082	33.734	27.130	.2662	1445.30
175.0	-1.028	33.786	27.171	.2706	1445.71
180.0	-.979	33.833	27.207	.2749	1446.08
185.0	-.920	33.879	27.242	.2791	1446.51
190.0	-.854	33.934	27.284	.2830	1446.97
195.0	-.811	33.977	27.317	.2868	1447.32
200.0	-.760	34.023	27.352	.2904	1447.70
210.0	-.624	34.142	27.443	.2971	1448.66
220.0	-.528	34.227	27.507	.3030	1449.39
230.0	-.435	34.301	27.563	.3084	1450.08
240.0	-.354	34.368	27.613	.3132	1450.72
250.0	-.271	34.430	27.660	.3176	1451.35
260.0	-.199	34.489	27.704	.3216	1451.92
270.0	-.123	34.550	27.749	.3251	1452.52
280.0	-.065	34.589	27.778	.3284	1453.00
290.0	-.009	34.625	27.804	.3313	1453.47
300.0	.043	34.664	27.833	.3341	1453.93
310.0	.085	34.696	27.856	.3365	1454.33
320.0	.121	34.722	27.875	.3388	1454.69
330.0	.149	34.740	27.889	.3409	1455.01
340.0	.188	34.764	27.906	.3429	1455.38
350.0	.215	34.782	27.918	.3447	1455.70
360.0	.239	34.799	27.931	.3465	1455.99
370.0	.253	34.807	27.937	.3481	1456.23
380.0	.268	34.816	27.943	.3497	1456.48
390.0	.288	34.823	27.947	.3512	1456.74
393.0	.286	34.826	27.950	.3517	1456.79

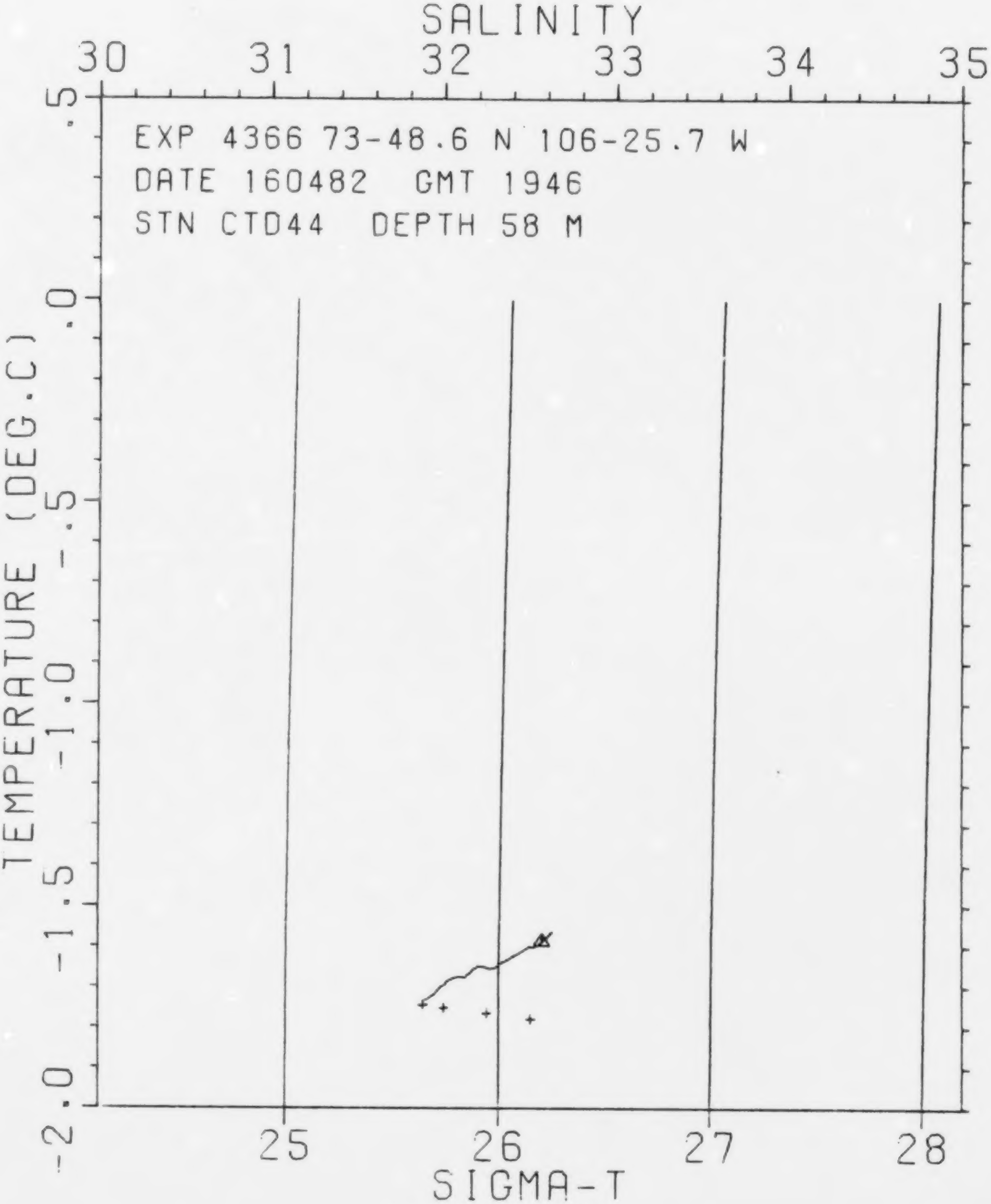

SALINITY
30
31
32
33
34
35
EXP 4365 74-0.5 N 106-35.3 W
DATE 160482 GMT 1813
STN CTD46 DEPTH 500 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

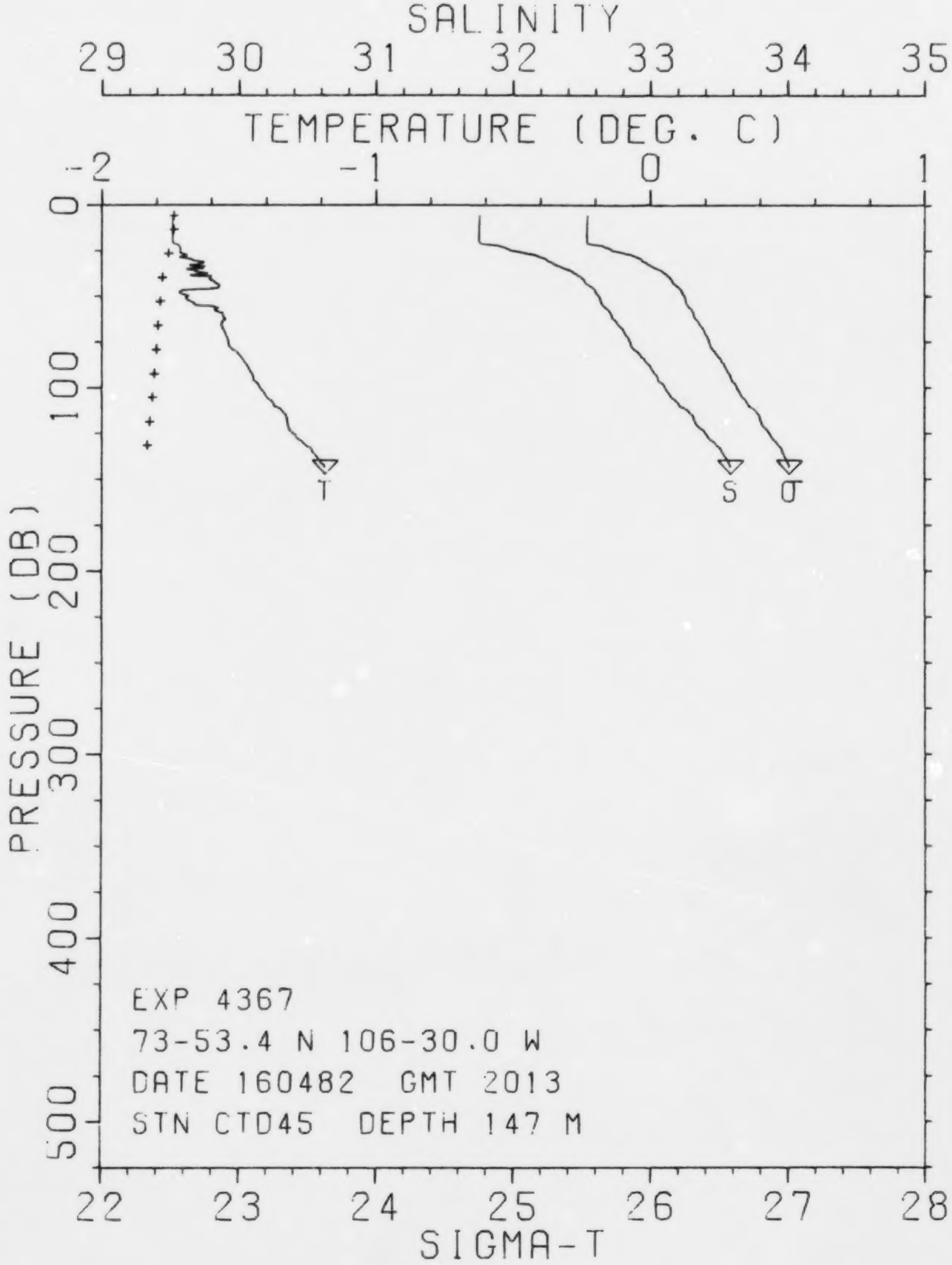

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4366
73-48.6 N 106-25.7 W
DATE 160482 GMT 1946
STN CTD44 DEPTH 58 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD44 EXPERIMENT NO. 4366 DATE 160482 GMT 1946
LAT. 73-48.6 N LONG. 106-25.7 W
WATER DEPTH 57.7 M ICE THICKNESS 1.5 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.6	-1.736	31.880	25.643	.0131	1436.92
6.0	-1.736	31.881	25.644	.0140	1436.92
7.0	-1.737	31.880	25.643	.0163	1436.94
8.0	-1.736	31.882	25.645	.0187	1436.96
9.0	-1.734	31.882	25.645	.0210	1436.99
10.0	-1.735	31.886	25.648	.0233	1437.00
11.0	-1.734	31.887	25.648	.0257	1437.03
12.0	-1.733	31.885	25.648	.0280	1437.04
13.0	-1.734	31.890	25.651	.0303	1437.06
14.0	-1.733	31.889	25.651	.0327	1437.08
15.0	-1.733	31.889	25.650	.0350	1437.10
16.0	-1.732	31.893	25.654	.0373	1437.12
17.0	-1.732	31.894	25.654	.0396	1437.14
18.0	-1.732	31.894	25.654	.0420	1437.16
19.0	-1.731	31.897	25.657	.0443	1437.18
20.0	-1.730	31.900	25.660	.0466	1437.21
21.0	-1.729	31.909	25.666	.0489	1437.24
22.0	-1.727	31.915	25.672	.0512	1437.28
23.0	-1.722	31.929	25.683	.0535	1437.33
24.0	-1.720	31.943	25.694	.0558	1437.38
25.0	-1.718	31.944	25.694	.0581	1437.41
27.5	-1.701	31.963	25.726	.0636	1437.59
30.0	-1.675	32.090	25.813	.0693	1437.90
32.0	-1.662	32.163	25.871	.0736	1438.10
33.0	-1.655	32.182	25.887	.0757	1438.17
34.0	-1.649	32.200	25.901	.0778	1438.25
35.0	-1.653	32.253	25.944	.0799	1438.32
36.0	-1.655	32.288	25.973	.0819	1438.37
37.0	-1.645	32.317	25.996	.0839	1438.48
38.0	-1.632	32.369	26.038	.0859	1438.63
39.0	-1.630	32.379	26.046	.0879	1438.67
40.0	-1.624	32.402	26.065	.0898	1438.74
41.0	-1.623	32.408	26.070	.0917	1438.77
42.0	-1.621	32.416	26.076	.0936	1438.81
43.0	-1.609	32.468	26.118	.0955	1438.96
44.0	-1.602	32.497	26.142	.0974	1439.05
45.0	-1.599	32.504	26.147	.0993	1439.09
46.0	-1.603	32.517	26.157	.1011	1439.11
47.0	-1.601	32.527	26.166	.1030	1439.15
48.0	-1.600	32.531	26.169	.1048	1439.17
49.0	-1.595	32.557	26.190	.1066	1439.25
50.0	-1.588	32.571	26.201	.1084	1439.32
51.0	-1.580	32.598	26.223	.1102	1439.41

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
52.0	-1.576	32.603	26.227	.1120	1439.45
53.0	-1.568	32.627	26.246	.1138	1439.54
54.0	-1.566	32.627	26.246	.1155	1439.57
55.0	-1.564	32.634	26.252	.1173	1439.60
55.5	-1.564	32.632	26.250	.1182	1439.61

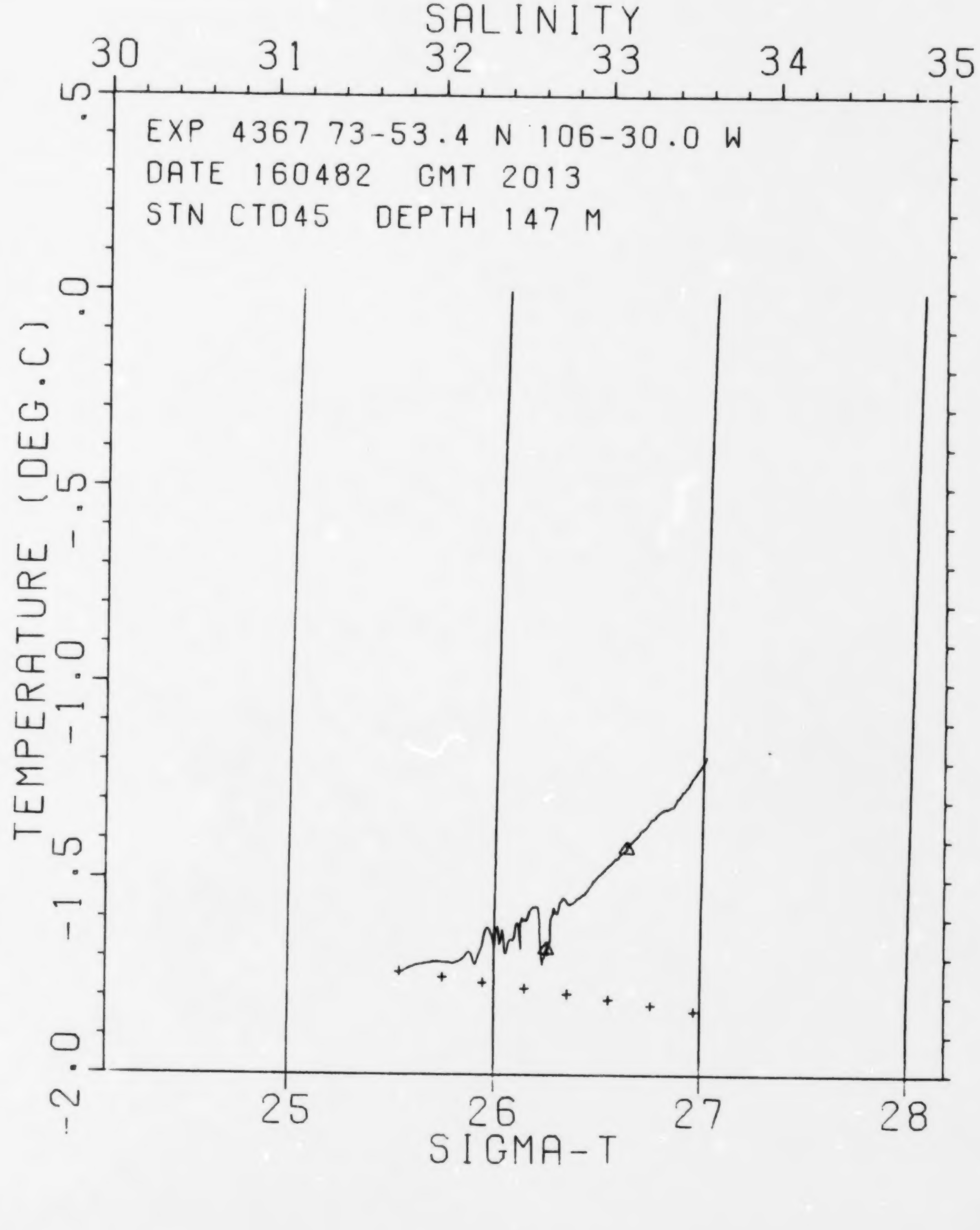

SALINITY
30
31
32
33
34
35
.5
.0
-.5
-1.0
-1.5
-2.0
TEMPERATURE (DEG.C)
EXP 4366 73-48.6 N 106-25.7 W
DATE 160482 GMT 1946
STN CTD44 DEPTH 58 M
25
26
27
28
SIGMA-T

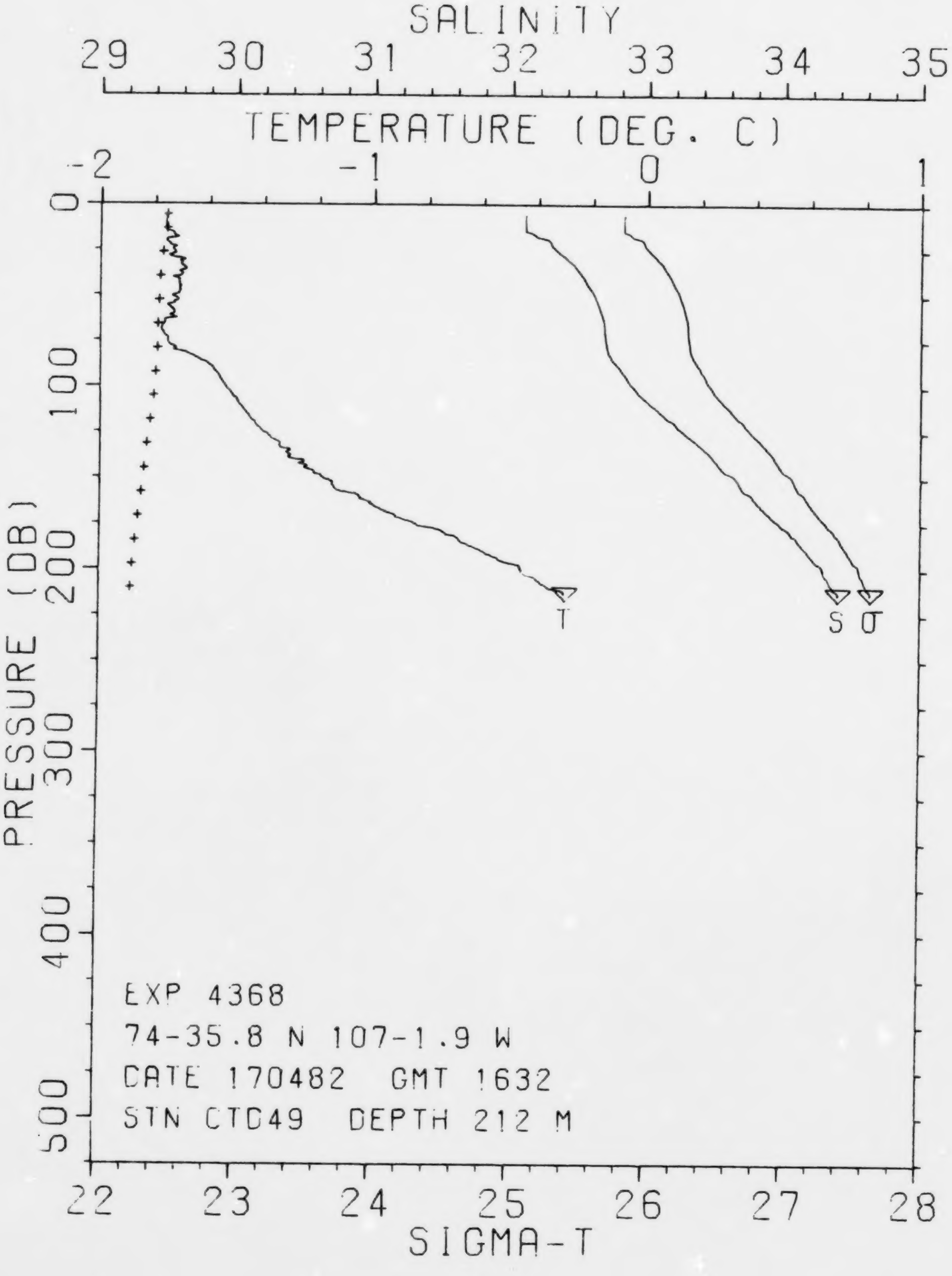

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4367
73-53.4 N 106-30.0 W
DATE 160482 GMT 2013
STN CTD45 DEPTH 147 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD45 EXPERIMENT NO. 4367 DATE 160482 GMT 2013
LAT. 73-53.4 N LONG. 106-30.0 W
WATER DEPTH 147.0 M ICE THICKNESS *** M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.743	31.754	25.541	.0135	1436.71
6.0	-1.743	31.754	25.541	.0146	1436.71
7.0	-1.743	31.753	25.540	.0170	1436.73
8.0	-1.743	31.754	25.541	.0195	1436.74
9.0	-1.743	31.752	25.540	.0219	1436.76
10.0	-1.742	31.752	25.539	.0243	1436.76
11.0	-1.742	31.751	25.538	.0268	1436.79
12.0	-1.742	31.751	25.538	.0292	1436.81
13.0	-1.741	31.750	25.538	.0316	1436.83
14.0	-1.741	31.750	25.538	.0341	1436.85
15.0	-1.742	31.752	25.539	.0365	1436.86
16.0	-1.743	31.752	25.539	.0389	1436.87
17.0	-1.743	31.752	25.539	.0414	1436.89
18.0	-1.742	31.751	25.539	.0438	1436.91
19.0	-1.741	31.751	25.538	.0462	1436.93
20.0	-1.742	31.754	25.541	.0487	1436.94
21.0	-1.741	31.755	25.542	.0511	1436.97
22.0	-1.717	31.881	25.643	.0535	1437.27
23.0	-1.714	31.925	25.680	.0558	1437.37
24.0	-1.711	31.960	25.708	.0581	1437.45
25.0	-1.711	31.984	25.727	.0604	1437.50
27.5	-1.685	32.168	25.676	.0658	1437.92
30.0	-1.667	32.249	25.942	.0710	1438.16
32.5	-1.644	32.307	25.988	.0761	1438.39
35.0	-1.694	32.388	26.055	.0810	1438.31
37.5	-1.610	32.453	26.106	.0858	1438.84
40.0	-1.604	32.503	26.147	.0905	1438.98
42.5	-1.585	32.529	26.167	.0951	1439.15
45.0	-1.573	32.579	26.207	.0996	1439.32
47.5	-1.720	32.606	26.233	.1040	1438.70
50.0	-1.682	32.631	26.252	.1085	1438.96
55.0	-1.632	32.655	26.270	.1172	1439.31
60.0	-1.558	32.721	26.322	.1257	1439.84
65.0	-1.566	32.767	26.366	.1341	1439.94
70.0	-1.550	32.818	26.401	.1422	1440.17
75.0	-1.539	32.859	26.434	.1502	1440.36
80.0	-1.510	32.903	26.469	.1580	1440.64
85.0	-1.483	32.966	26.519	.1656	1440.94
90.0	-1.462	33.015	26.558	.1730	1441.19
95.0	-1.448	33.057	26.592	.1802	1441.40
100.0	-1.422	33.111	26.635	.1873	1441.68
105.0	-1.399	33.153	26.669	.1941	1441.93
110.0	-1.372	33.217	26.720	.2006	1442.23

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.329	33.311	26.795	.2071	1442.65
120.0	-1.321	33.339	26.817	.2132	1442.80
122.0	-1.320	33.360	26.835	.2156	1442.87
123.0	-1.314	33.375	26.846	.2168	1442.94
124.0	-1.308	33.397	26.665	.2180	1443.01
125.0	-1.301	33.405	26.870	.2192	1443.07
126.0	-1.292	33.415	26.878	.2203	1443.14
127.0	-1.292	33.423	26.885	.2215	1443.18
128.0	-1.287	33.434	26.894	.2226	1443.23
129.0	-1.274	33.451	26.907	.2238	1443.33
130.0	-1.266	33.471	26.923	.2249	1443.41
131.0	-1.260	33.477	26.927	.2260	1443.47
132.0	-1.251	33.489	26.937	.2271	1443.54
133.0	-1.238	33.513	26.956	.2282	1443.65
134.0	-1.234	33.521	26.962	.2293	1443.70
135.0	-1.232	33.523	26.964	.2303	1443.73
136.0	-1.225	33.531	26.971	.2314	1443.79
137.0	-1.220	33.538	26.976	.2325	1443.84
138.0	-1.216	33.549	26.985	.2335	1443.89
139.0	-1.209	33.558	26.992	.2346	1443.95
140.0	-1.203	33.567	26.999	.2356	1444.01
141.0	-1.201	33.572	27.003	.2367	1444.04
142.0	-1.192	33.581	27.010	.2377	1444.11
143.0	-1.187	33.587	27.015	.2387	1444.16
143.4	-1.187	33.584	27.012	.2392	1444.17

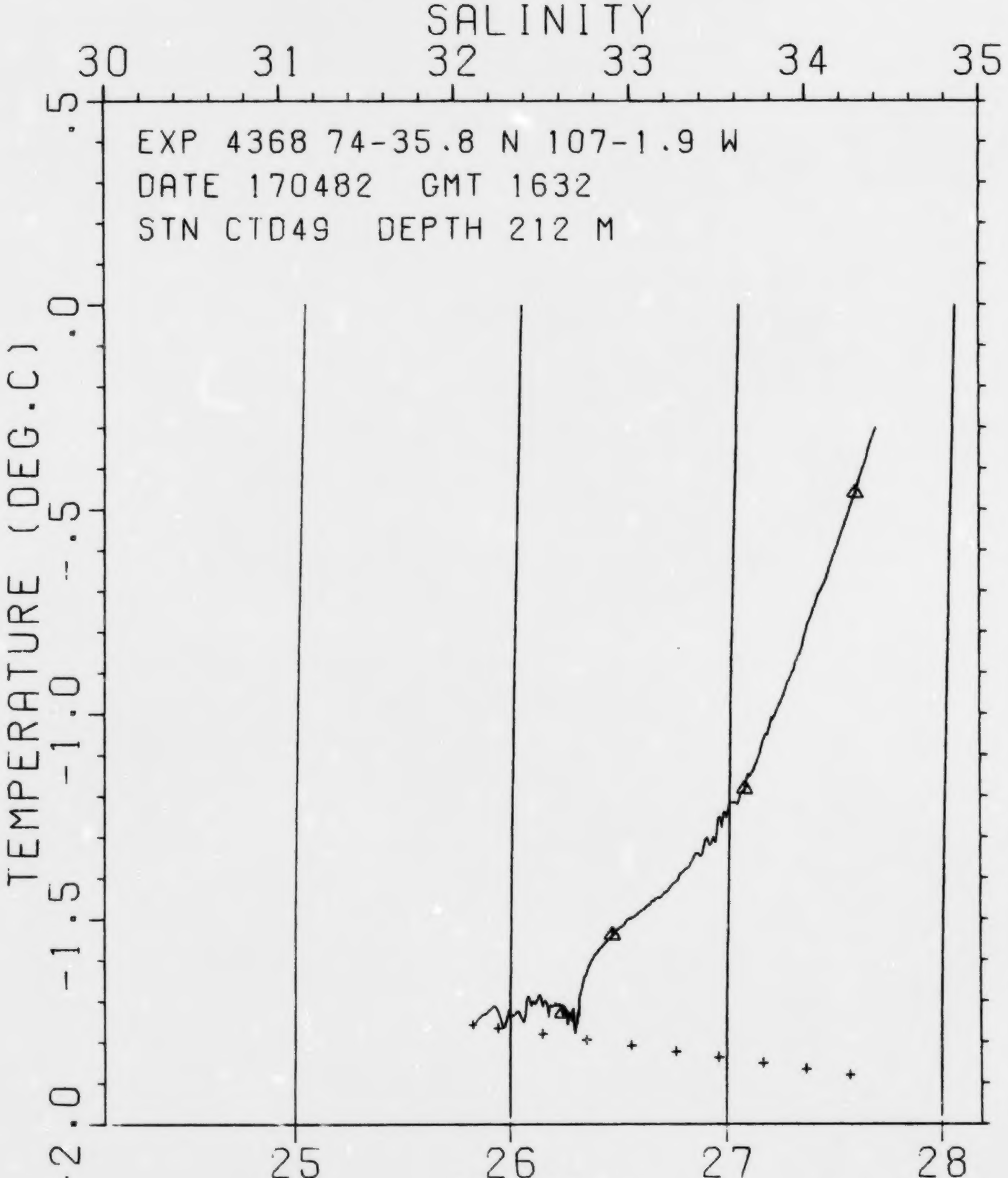

SALINITY
30
31
32
33
34
35
EXP 4367 73-53.4 N 106-30.0 W
DATE 160482 GMT 2013
STN CTD45 DEPTH 147 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

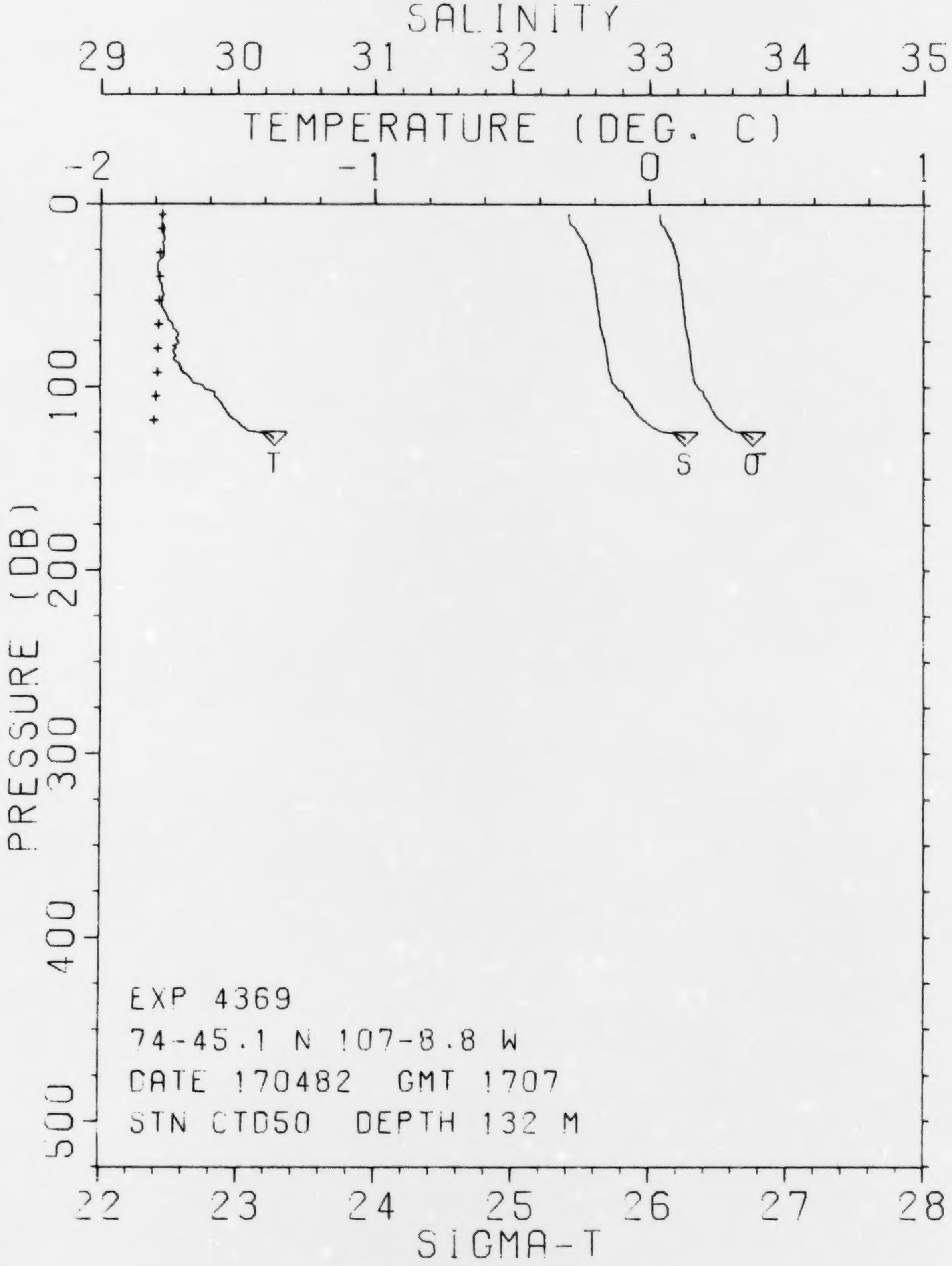

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4368
74-35.8 N 107-1.9 W
DATE 170482 GMT 1632
STN CTD49 DEPTH 212 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD49 EXPERIMENT NO. 4368 DATE 170482 GMT 1632
LAT. 74-35.8 N LONG. 107-01.9 W
WATER DEPTH 252.0 M ICE THICKNESS 2.0 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.7	-1.763	32.104	25.826	.0123	1437.11
6.0	-1.762	32.104	25.825	.0130	1437.11
7.0	-1.762	32.104	25.826	.0151	1437.13
8.0	-1.761	32.102	25.824	.0173	1437.15
9.0	-1.761	32.103	25.825	.0195	1437.17
10.0	-1.761	32.103	25.824	.0216	1437.18
11.0	-1.761	32.103	25.825	.0238	1437.20
12.0	-1.761	32.103	25.825	.0259	1437.22
13.0	-1.761	32.103	25.825	.0281	1437.23
14.0	-1.761	32.105	25.826	.0303	1437.25
15.0	-1.757	32.112	25.832	.0324	1437.30
16.0	-1.733	32.160	25.871	.0346	1437.50
17.0	-1.730	32.179	25.886	.0367	1437.55
18.0	-1.722	32.198	25.901	.0388	1437.63
19.0	-1.750	32.269	25.959	.0408	1437.61
20.0	-1.758	32.284	25.972	.0428	1437.62
21.0	-1.758	32.291	25.978	.0449	1437.64
22.0	-1.745	32.296	25.981	.0469	1437.73
23.0	-1.743	32.301	25.986	.0489	1437.76
24.0	-1.729	32.322	26.002	.0509	1437.87
25.0	-1.738	32.334	26.012	.0529	1437.86
27.5	-1.731	32.373	26.044	.0578	1437.99
30.0	-1.707	32.413	26.075	.0626	1438.20
32.5	-1.700	32.455	26.110	.0674	1438.34
35.0	-1.690	32.482	26.131	.0721	1438.46
37.5	-1.706	32.508	26.152	.0768	1438.46
40.0	-1.717	32.532	26.173	.0814	1438.49
42.5	-1.713	32.552	26.188	.0859	1438.58
45.0	-1.709	32.571	26.204	.0904	1438.66
47.5	-1.710	32.597	26.225	.0949	1438.74
50.0	-1.728	32.617	26.242	.0993	1438.72
55.0	-1.738	32.644	26.264	.1081	1438.79
60.0	-1.728	32.661	26.277	.1168	1438.94
65.0	-1.766	32.684	26.297	.1254	1438.88
70.0	-1.774	32.686	26.299	.1339	1438.92
75.0	-1.753	32.696	26.306	.1424	1439.12
80.0	-1.735	32.710	26.318	.1509	1439.31
85.0	-1.637	32.740	26.340	.1593	1439.89
90.0	-1.585	32.803	26.390	.1675	1440.31
95.0	-1.561	32.848	26.426	.1755	1440.57
100.0	-1.540	32.899	26.467	.1833	1440.83
105.0	-1.515	32.959	26.515	.1910	1441.11
110.0	-1.489	33.032	26.573	.1983	1441.42

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
115.0	-1.462	33.113	26.638	.2054	1441.74
120.0	-1.432	33.201	26.709	.2121	1442.09
125.0	-1.401	33.272	26.765	.2186	1442.41
130.0	-1.352	33.356	26.833	.2247	1442.85
135.0	-1.302	33.432	26.893	.2306	1443.27
140.0	-1.283	33.494	26.943	.2362	1443.53
145.0	-1.251	33.548	26.985	.2415	1443.84
150.0	-1.185	33.651	27.066	.2466	1444.37
155.0	-1.141	33.693	27.099	.2514	1444.72
160.0	-1.049	33.775	27.162	.2560	1445.35
165.0	-.997	33.835	27.209	.2603	1445.76
170.0	-.924	33.903	27.261	.2644	1446.28
175.0	-.843	33.978	27.319	.2683	1446.84
180.0	-.739	34.054	27.377	.2718	1447.51
185.0	-.679	34.115	27.424	.2751	1447.96
190.0	-.598	34.178	27.471	.2782	1448.50
191.0	-.591	34.184	27.475	.2788	1448.56
192.0	-.572	34.200	27.488	.2794	1448.69
193.0	-.557	34.210	27.495	.2799	1448.79
194.0	-.544	34.222	27.504	.2805	1448.88
195.0	-.536	34.232	27.512	.2811	1448.95
196.0	-.516	34.245	27.521	.2816	1449.08
197.0	-.480	34.273	27.543	.2822	1449.30
198.0	-.462	34.285	27.551	.2827	1449.41
199.0	-.462	34.289	27.554	.2832	1449.44
200.0	-.461	34.291	27.556	.2837	1449.46
201.0	-.460	34.291	27.556	.2842	1449.48
202.0	-.458	34.293	27.558	.2848	1449.51
203.0	-.444	34.306	27.567	.2853	1449.61
204.0	-.415	34.320	27.578	.2858	1449.78
205.0	-.404	34.330	27.585	.2863	1449.86
206.0	-.400	34.334	27.588	.2868	1449.90
207.0	-.388	34.341	27.594	.2872	1449.98
208.0	-.382	34.348	27.599	.2877	1450.04
209.0	-.366	34.358	27.606	.2882	1450.14
210.0	-.359	34.362	27.609	.2887	1450.19
211.0	-.323	34.388	27.628	.2891	1450.41
212.0	-.304	34.402	27.639	.2896	1450.53
213.0	-.300	34.409	27.644	.2900	1450.58
213.4	-.299	34.403	27.639	.2902	1450.58

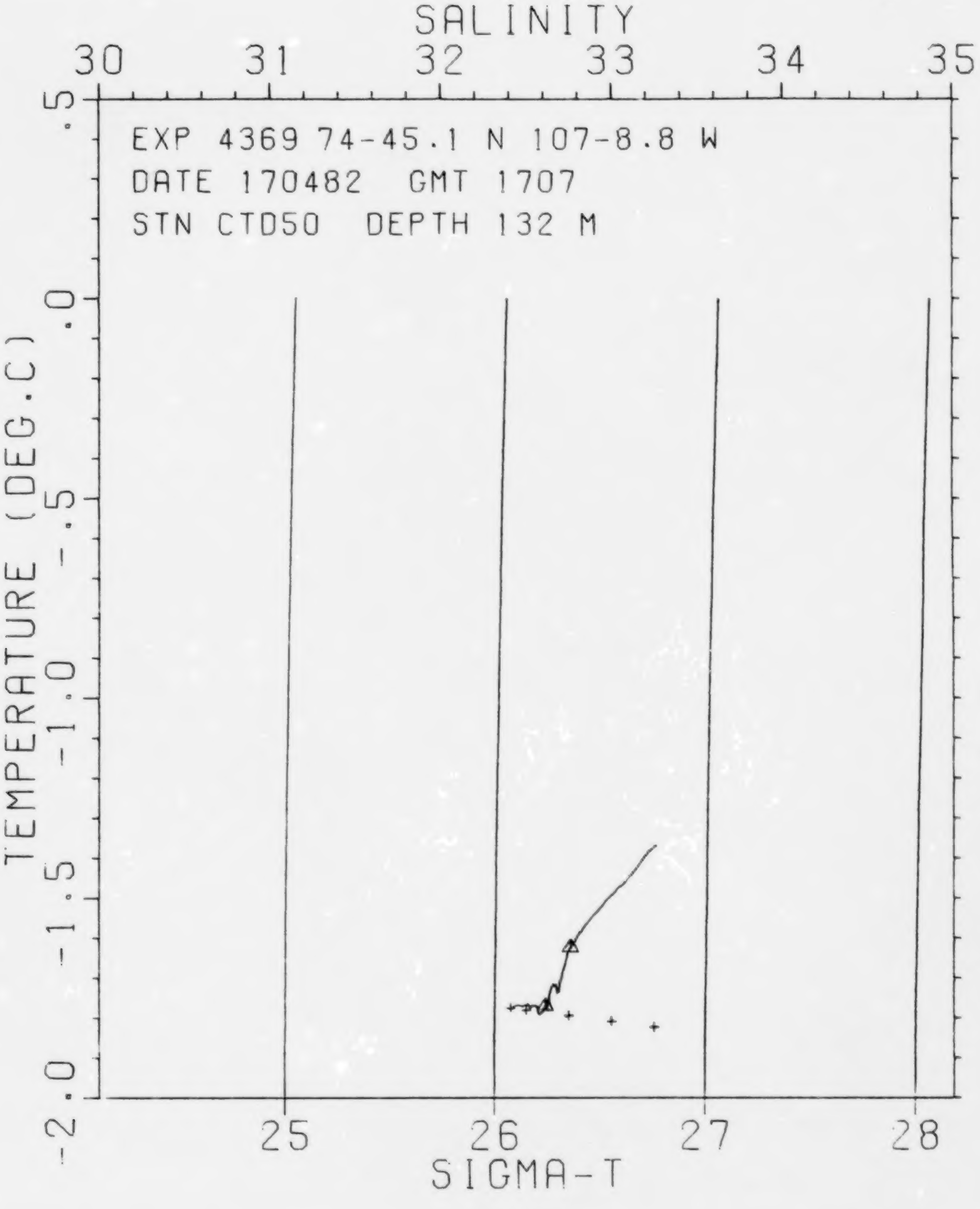

SALINITY
30
31
32
33
34
35
EXP 4368 74-35.8 N 107-1.9 W
DATE 170482 GMT 1632
STN CTD49 DEPTH 212 M
.5
.0
-.5
-1.0
-1.5
-2.0
TEMPERATURE (DEG.C)
25
26
27
28
SIGMA-T

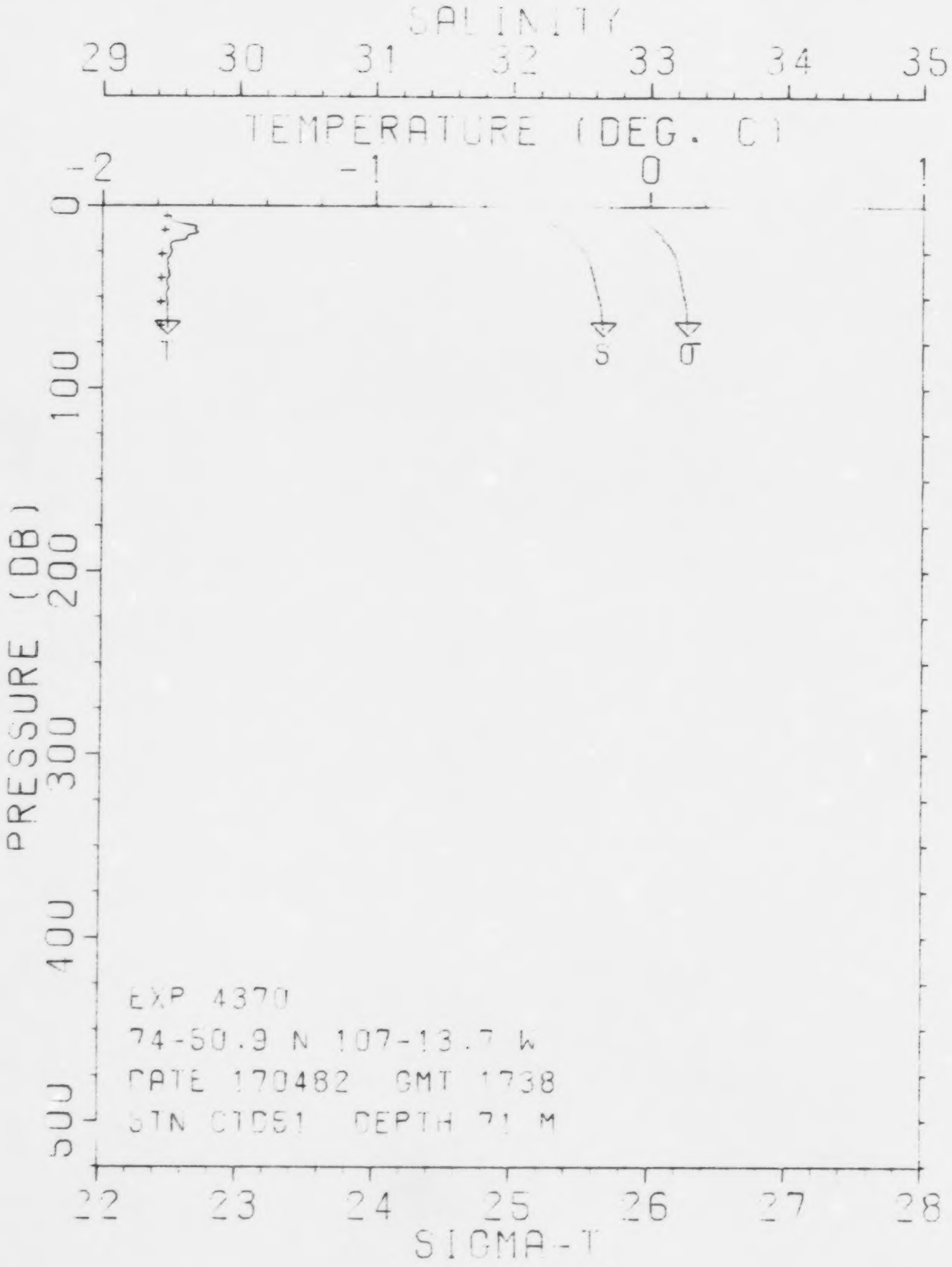

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4369
74-45.1 N 107-8.8 W
DATE 170482 GMT 1707
STN CTD50 DEPTH 132 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD50 EXPERIMENT NO. 4369 DATE 170482 GMT 1707
LAT. 74-45.1 N LONG. 107-08.8 W
WATER DEPTH 131.9 M ICE THICKNESS 2.2 M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.3	-1.777	32.409	26.074	.0102	1437.46
6.0	-1.778	32.409	26.074	.0115	1437.47
7.0	-1.778	32.408	26.073	.0135	1437.48
8.0	-1.778	32.413	26.077	.0154	1437.51
9.0	-1.776	32.412	26.076	.0173	1437.53
10.0	-1.775	32.418	26.081	.0192	1437.56
11.0	-1.775	32.420	26.083	.0212	1437.58
12.0	-1.768	32.437	26.096	.0231	1437.65
13.0	-1.767	32.459	26.115	.0250	1437.71
14.0	-1.768	32.466	26.120	.0269	1437.73
15.0	-1.769	32.468	26.121	.0287	1437.74
16.0	-1.770	32.477	26.129	.0306	1437.77
17.0	-1.771	32.487	26.137	.0325	1437.79
18.0	-1.766	32.495	26.144	.0343	1437.84
19.0	-1.767	32.510	26.156	.0362	1437.87
20.0	-1.765	32.516	26.160	.0380	1437.91
21.0	-1.775	32.522	26.166	.0399	1437.89
22.0	-1.770	32.533	26.175	.0417	1437.94
23.0	-1.769	32.539	26.179	.0435	1437.97
24.0	-1.768	32.541	26.181	.0454	1437.99
25.0	-1.769	32.545	26.185	.0472	1438.01
27.5	-1.769	32.556	26.193	.0517	1438.07
30.0	-1.776	32.568	26.203	.0562	1438.09
32.5	-1.791	32.576	26.210	.0607	1438.08
35.0	-1.793	32.579	26.212	.0652	1438.11
37.5	-1.789	32.581	26.214	.0697	1438.17
40.0	-1.785	32.590	26.221	.0742	1438.25
42.5	-1.786	32.599	26.229	.0786	1438.30
45.0	-1.775	32.603	26.232	.0830	1438.40
47.5	-1.774	32.609	26.236	.0875	1438.45
50.0	-1.770	32.614	26.241	.0919	1438.52
55.0	-1.777	32.619	26.244	.1007	1438.57
60.0	-1.762	32.629	26.252	.1095	1438.74
65.0	-1.739	32.638	26.259	.1182	1438.94
70.0	-1.719	32.653	26.271	.1269	1439.14
75.0	-1.719	32.673	26.287	.1355	1439.25
80.0	-1.735	32.687	26.299	.1441	1439.27
85.0	-1.735	32.694	26.304	.1526	1439.37
90.0	-1.706	32.703	26.311	.1611	1439.60
95.0	-1.673	32.723	26.326	.1695	1439.87
100.0	-1.622	32.760	26.356	.1779	1440.24
105.0	-1.584	32.821	26.404	.1860	1440.59
106.0	-1.580	32.827	26.409	.1876	1440.63

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
107.0	-1.569	32.844	26.422	.1892	1440.73
108.0	-1.563	32.855	26.431	.1908	1440.79
109.0	-1.557	32.866	26.440	.1923	1440.84
110.0	-1.553	32.874	26.447	.1939	1440.89
111.0	-1.552	32.879	26.450	.1955	1440.92
112.0	-1.549	32.864	26.455	.1970	1440.96
113.0	-1.541	32.897	26.465	.1986	1441.03
114.0	-1.536	32.907	26.473	.2001	1441.08
115.0	-1.534	32.917	26.481	.2017	1441.12
116.0	-1.530	32.928	26.490	.2032	1441.18
117.0	-1.520	32.944	26.503	.2047	1441.26
118.0	-1.513	32.952	26.509	.2062	1441.32
119.0	-1.500	32.961	26.532	.2077	1441.44
120.0	-1.493	32.995	26.543	.2092	1441.51
121.0	-1.487	33.012	26.557	.2106	1441.58
122.0	-1.481	33.029	26.570	.2121	1441.65
123.0	-1.470	33.052	26.589	.2135	1441.74
124.0	-1.461	33.076	26.608	.2150	1441.84
125.0	-1.409	33.175	26.687	.2163	1442.24
126.0	-1.385	33.216	26.720	.2177	1442.43
127.0	-1.375	33.241	26.739	.2190	1442.53
128.0	-1.368	33.263	26.757	.2202	1442.61
128.6	-1.367	33.259	26.754	.2210	1442.62

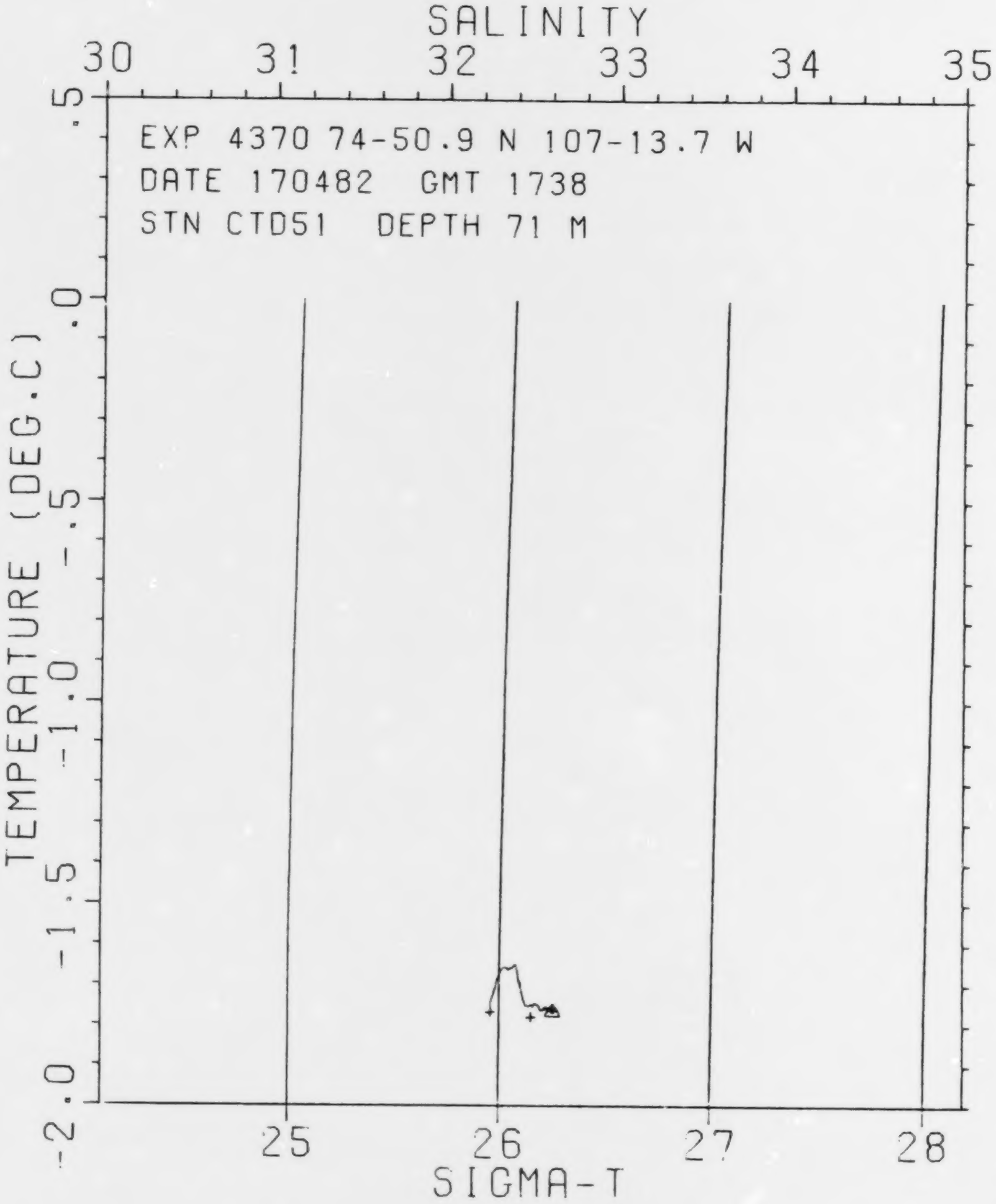

SALINITY
30
31
32
33
34
35
EXP 4369 74-45.1 N 107-8.8 W
DATE 170482 GMT 1707
STN CTD50 DEPTH 132 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

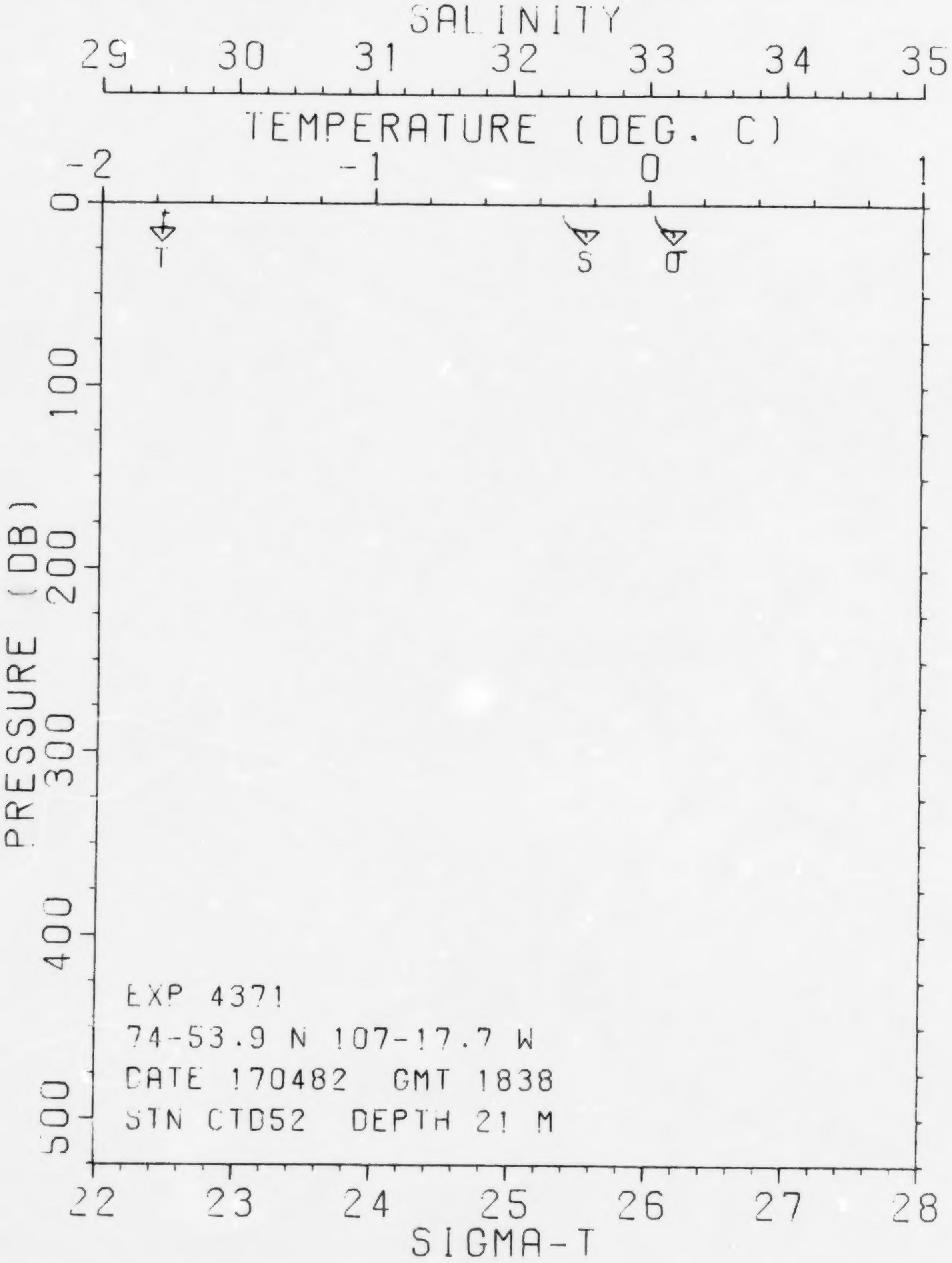

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4370
74-50.9 N 107-13.7 W
DATE 170482 GMT 1738
STN C1D51 DEPTH 71 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD51 EXPERIMENT NO. 4370 DATE 170482 GMT 1738
LAT. 74-50.9 N LONG. 107-13.7 W
WATER DEPTH 70.7 M ICE THICKNESS *** M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.5	-1.752	32.268	25.959	.0112	1437.38
6.0	-1.751	32.269	25.959	.0122	1437.40
7.0	-1.753	32.268	25.958	.0142	1437.41
8.0	-1.749	32.268	25.956	.0163	1437.44
9.0	-1.733	32.278	25.966	.0183	1437.55
10.0	-1.699	32.303	25.986	.0203	1437.76
11.0	-1.664	32.332	26.009	.0223	1437.98
12.0	-1.655	32.363	26.034	.0243	1438.09
13.0	-1.662	32.376	26.045	.0263	1438.09
14.0	-1.657	32.396	26.061	.0282	1438.16
15.0	-1.648	32.416	26.077	.0301	1438.24
16.0	-1.687	32.433	26.091	.0321	1438.10
17.0	-1.696	32.437	26.095	.0340	1438.08
18.0	-1.691	32.437	26.094	.0359	1438.12
19.0	-1.714	32.450	26.106	.0378	1438.04
20.0	-1.746	32.469	26.122	.0397	1437.93
21.0	-1.753	32.488	26.138	.0415	1437.94
22.0	-1.752	32.496	26.144	.0434	1437.98
23.0	-1.749	32.508	26.154	.0452	1438.02
24.0	-1.751	32.517	26.161	.0471	1438.04
25.0	-1.746	32.526	26.168	.0489	1438.10
27.5	-1.752	32.551	26.189	.0535	1438.14
30.0	-1.765	32.563	26.199	.0580	1438.14
32.5	-1.760	32.572	26.206	.0625	1438.22
35.0	-1.759	32.579	26.211	.0670	1438.27
37.5	-1.753	32.592	26.222	.0715	1438.36
40.0	-1.763	32.600	26.229	.0759	1438.37
42.5	-1.766	32.606	26.233	.0803	1438.40
45.0	-1.765	32.614	26.240	.0848	1438.50
46.0	-1.759	32.618	26.243	.0865	1438.51
47.0	-1.765	32.623	26.247	.0883	1438.50
48.0	-1.766	32.624	26.248	.0901	1438.51
49.0	-1.769	32.628	26.252	.0918	1438.52
50.0	-1.767	32.633	26.256	.0936	1438.56
51.0	-1.764	32.635	26.257	.0953	1438.59
52.0	-1.765	32.639	26.260	.0971	1438.61
53.0	-1.763	32.645	26.266	.0988	1439.64
54.0	-1.761	32.645	26.265	.1005	1438.67
55.0	-1.763	32.647	26.267	.1023	1438.68
56.0	-1.764	32.649	26.269	.1040	1438.69
57.0	-1.764	32.650	26.269	.1058	1438.71
58.0	-1.762	32.650	26.270	.1075	1438.74
59.0	-1.764	32.652	26.271	.1092	1438.74

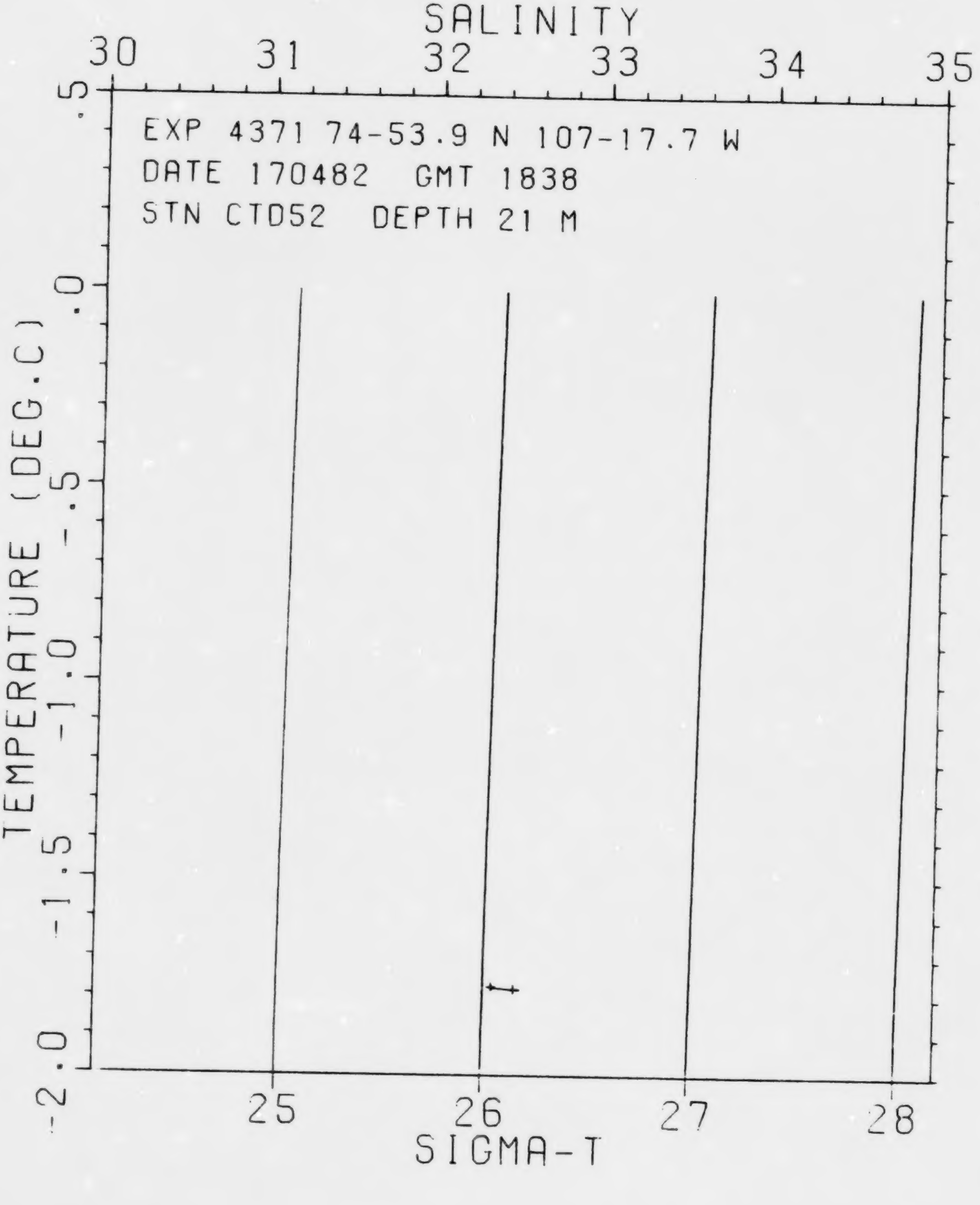
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
60.0	-1.762	32.653	26.272	.1110	1438.77
61.0	-1.762	32.654	26.273	.1127	1438.79
62.0	-1.761	32.654	26.273	.1144	1438.81
63.0	-1.763	32.655	26.273	.1162	1438.82
64.0	-1.764	32.656	26.274	.1179	1438.83
65.0	-1.761	32.659	26.276	.1196	1438.86
66.0	-1.762	32.660	26.277	.1213	1438.88
67.0	-1.763	32.661	26.279	.1231	1438.89
67.0	-1.763	32.660	26.277	.1230	1438.89

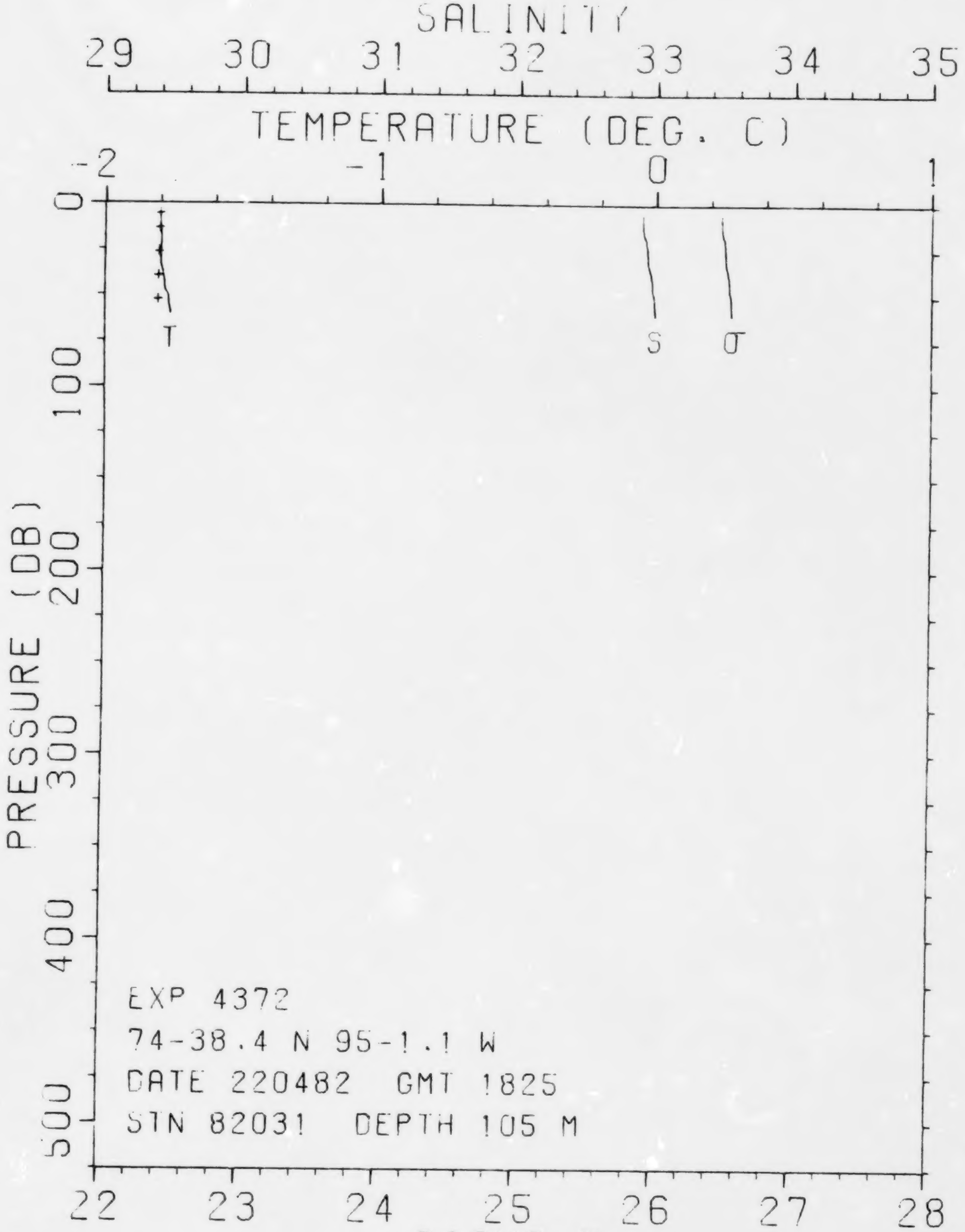

SALINITY
30
31
32
33
34
35
EXP 4370 74-50.9 N 107-13.7 W
DATE 170482 GMT 1738
STN CTD51 DEPTH 71 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
T
S
σ
PRESSURE (DB)
0
100
200
300
400
500
EXP 4371
74-53.9 N 107-17.7 W
DATE 170482 GMT 1838
STN CTD52 DEPTH 21 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION CTD52 EXPERIMENT NO. 4371 DATE 170482 GMT 1838
LAT. 74-53.9 N LONG. 107-17.7 W
WATER DEPTH 21.1 M ICE THICKNESS *** M

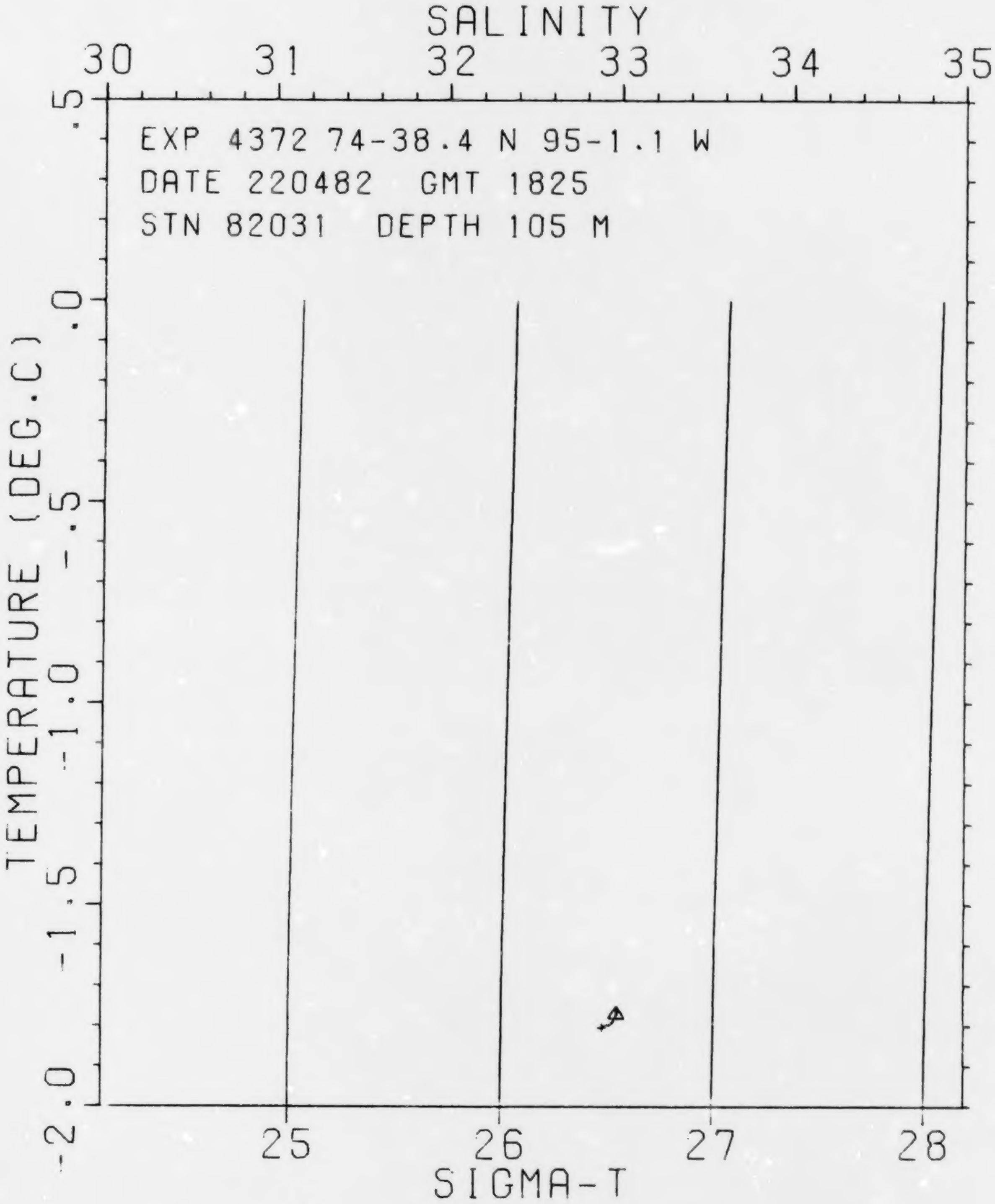
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.3	-1.778	32.367	26.040	.0104	1437.40
6.0	-1.778	32.368	26.041	.0118	1437.41
7.0	-1.777	32.375	26.047	.0137	1437.44
8.0	-1.776	32.368	26.040	.0157	1437.45
9.0	-1.776	32.381	26.051	.0176	1437.49
10.0	-1.776	32.394	26.062	.0196	1437.52
11.0	-1.778	32.408	26.073	.0215	1437.55
12.0	-1.777	32.414	26.078	.0234	1437.58
13.0	-1.778	32.440	26.099	.0253	1437.63
14.0	-1.780	32.516	26.161	.0272	1437.74
15.0	-1.780	32.537	26.178	.0290	1437.79
16.0	-1.780	32.541	26.181	.0309	1437.81
17.0	-1.780	32.542	26.182	.0327	1437.83
17.4	-1.780	32.535	26.176	.0335	1437.82

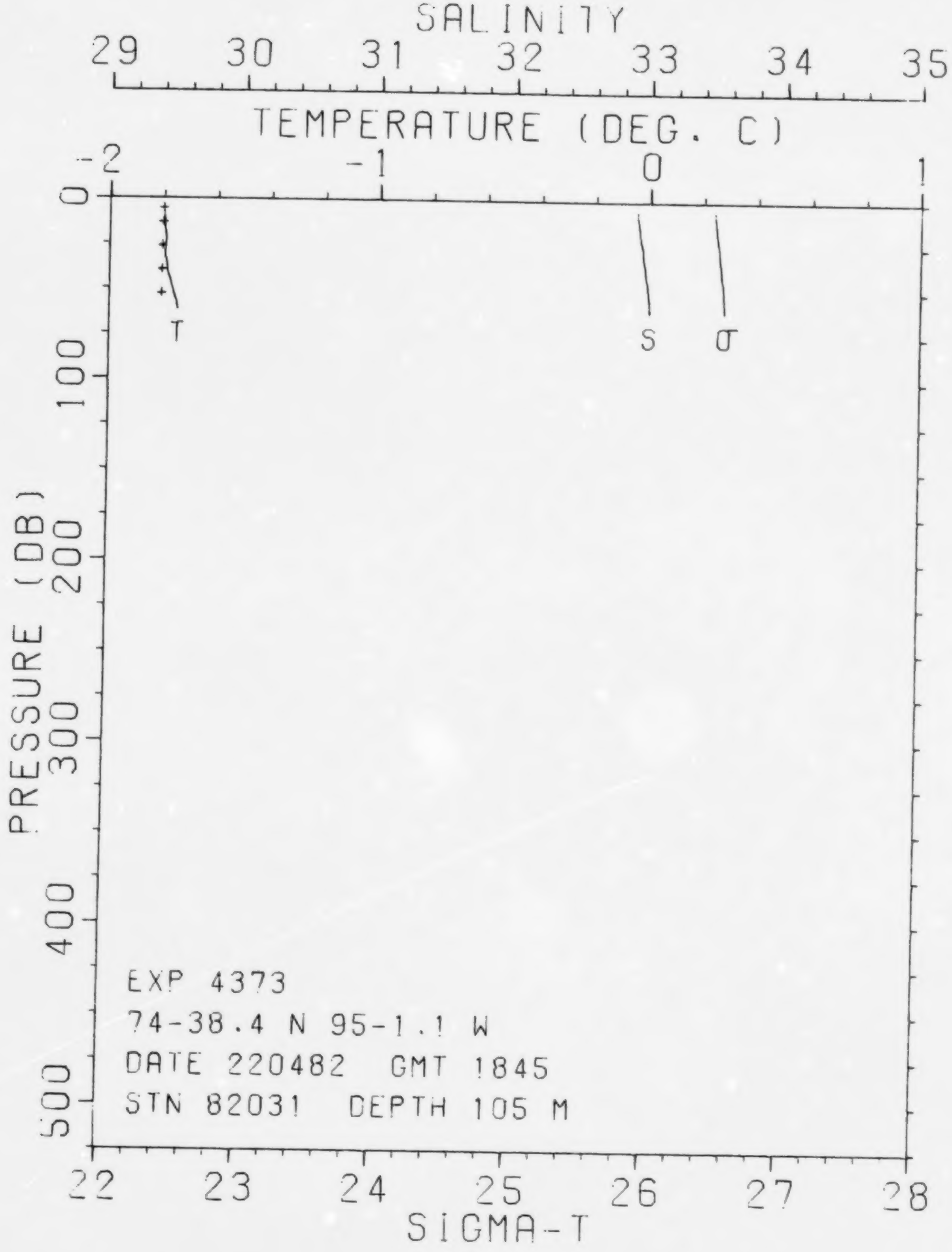

SALINITY
30
31
32
33
34
35
EXP 4371 74-53.9 N 107-17.7 W
DATE 170482 GMT 1838
STN CTD52 DEPTH 21 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4372
74-38.4 N 95-1.1 W
DATE 220482 GMT 1825
STN 82031 DEPTH 105 M
22
23
24
25
26
27
28
SIGMA-T

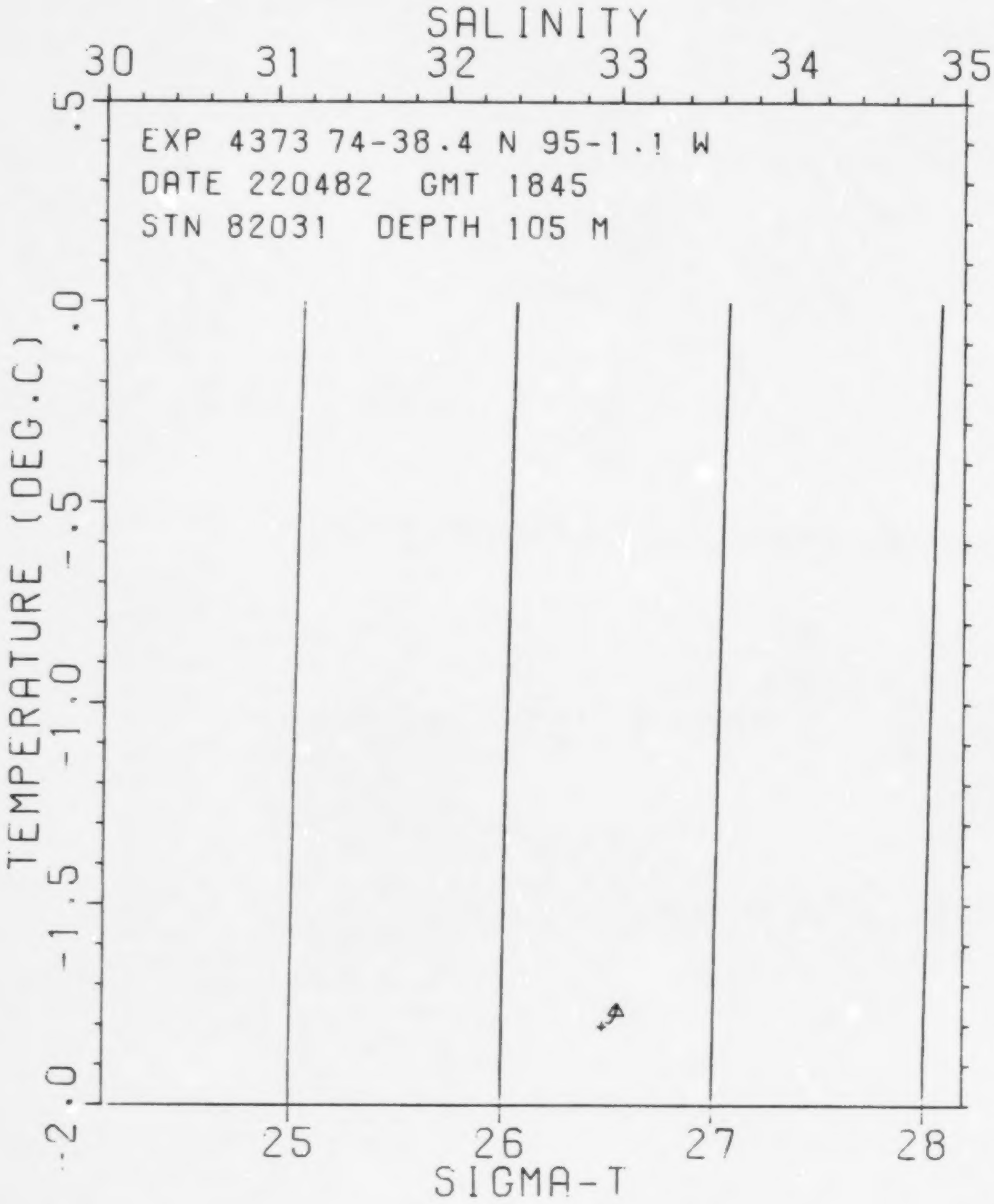
CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION 82031 EXPERIMENT NO. 4372 DATE 220482 GMT 1825
LAT. 74-38.4 N LONG. 095-01.1 W
WATER DEPTH 105.0 M ICE THICKNESS *** M

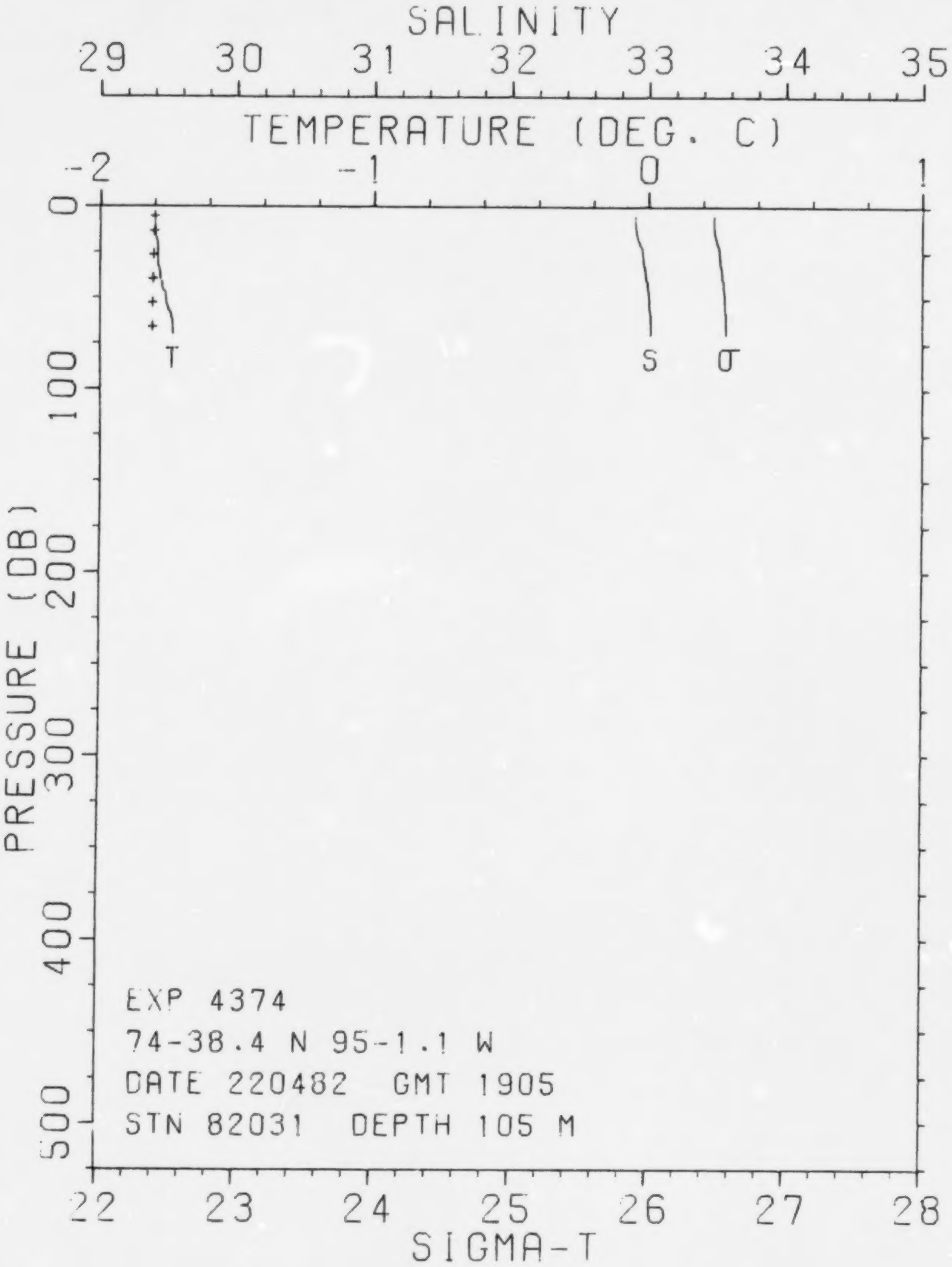
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.802	32.902	26.475	.0083	1438.04
6.0	-1.802	32.904	26.477	.0093	1438.05
7.0	-1.802	32.904	26.476	.0108	1438.07
8.0	-1.801	32.903	26.476	.0124	1438.09
9.0	-1.801	32.903	26.476	.0139	1438.11
10.0	-1.801	32.904	26.477	.0154	1438.12
11.0	-1.799	32.904	26.476	.0170	1438.15
12.0	-1.799	32.904	26.477	.0185	1438.16
13.0	-1.799	32.905	26.478	.0201	1438.18
14.0	-1.798	32.906	26.478	.0216	1438.20
15.0	-1.797	32.909	26.480	.0232	1438.23
16.0	-1.797	32.910	26.482	.0247	1438.25
17.0	-1.797	32.913	26.484	.0262	1438.27
18.0	-1.796	32.919	26.489	.0278	1438.30
19.0	-1.794	32.929	26.497	.0293	1438.34
20.0	-1.795	32.931	26.499	.0308	1438.35
21.0	-1.796	32.933	26.500	.0323	1438.37
22.0	-1.796	32.934	26.501	.0338	1438.38
23.0	-1.796	32.936	26.503	.0354	1438.40
24.0	-1.797	32.937	26.504	.0369	1438.42
25.0	-1.797	32.937	26.504	.0384	1438.43
27.5	-1.798	32.940	26.506	.0422	1438.47
30.0	-1.798	32.942	26.508	.0460	1438.52
32.5	-1.798	32.944	26.509	.0497	1438.56
35.0	-1.794	32.953	26.516	.0535	1438.64
37.5	-1.790	32.963	26.524	.0573	1438.71
40.0	-1.788	32.970	26.531	.0610	1438.77
42.5	-1.785	32.974	26.533	.0647	1438.83
45.0	-1.784	32.975	26.534	.0684	1438.88
47.5	-1.783	32.976	26.535	.0722	1438.92
50.0	-1.770	32.989	26.545	.0759	1439.04
55.0	-1.768	32.993	26.548	.0832	1439.14
60.0	-1.763	32.998	26.552	.0906	1439.25
60.6	-1.762	32.997	26.551	.0914	1439.27


SALINITY
30
31
32
33
34
35
EXP 4372 74-38.4 N 95-1.1 W
DATE 220482 GMT 1825
STN 82031 DEPTH 105 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4373
74-38.4 N 95-1.1 W
DATE 220482 GMT 1845
STN 82031 DEPTH 105 M
22
23
24
25
26
27
28
SIGMA-T

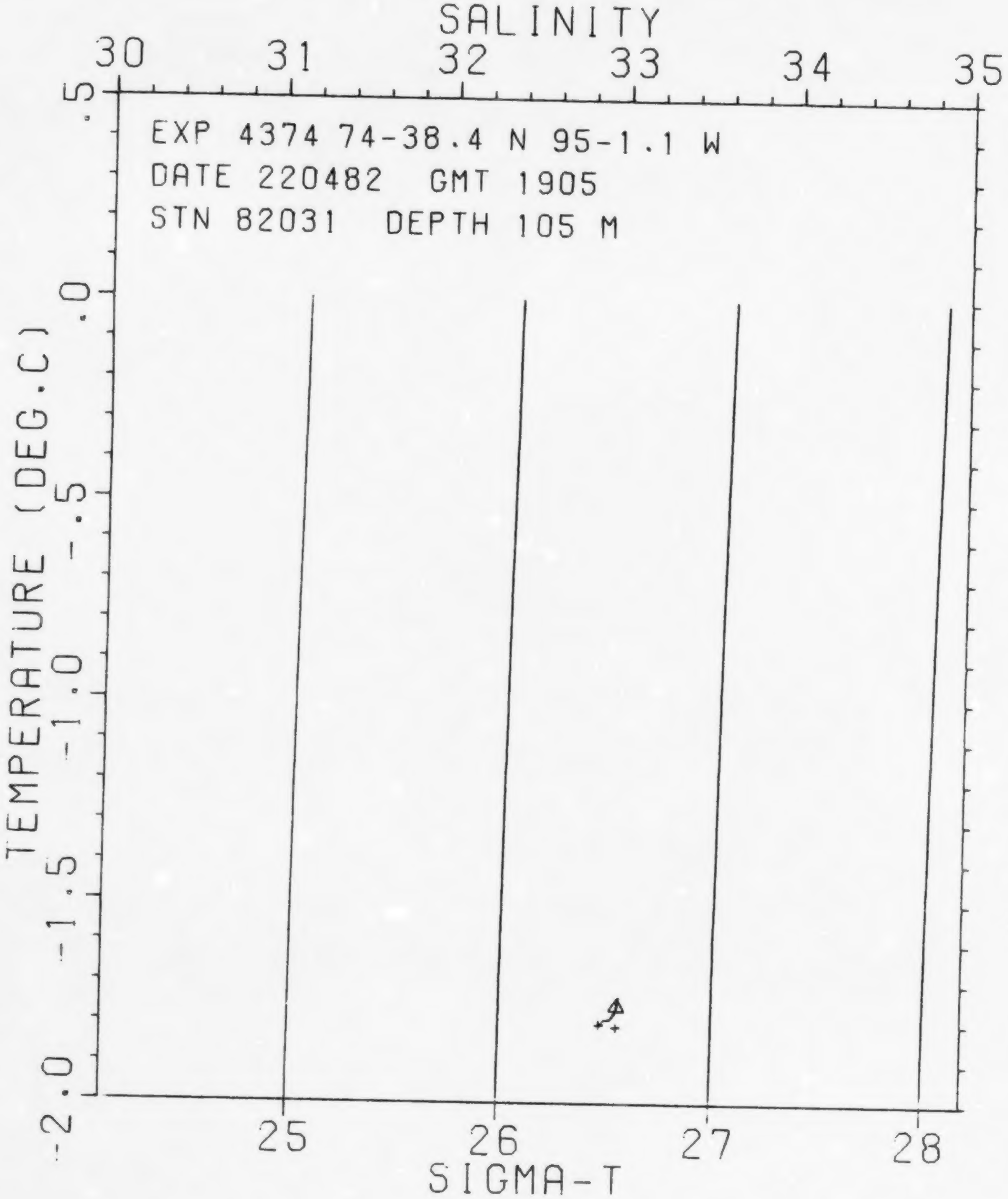
```
CRUISE 015-82-021  WESTERN NORTH-WEST PASSAGE
STATION 82031  EXPERIMENT NO.   4373   DATE 220482 GMT 1845
LAT. 74-38.4 N   LONG. 095-01.1 W
WATER DEPTH  105.0 M   ICE THICKNESS *** M

PRESSURE    TEMP    SALINITY   SIGMAT     DHA      SOUND
 (DBARS)  (DEG.C)                       (DYN M)    (M/S)

    5.2   -1.801    32.903    26.476    .0080    1438.04
    6.0   -1.801    32.903    26.476    .0093    1438.06
    7.0   -1.801    32.904    26.476    .0108    1438.07
    8.0   -1.800    32.904    26.477    .0124    1438.10
    9.0   -1.799    32.906    26.478    .0139    1438.12
   10.0   -1.799    32.907    26.480    .0154    1438.14
   11.0   -1.797    32.912    26.483    .0170    1438.17
   12.0   -1.797    32.913    26.484    .0185    1438.19
   13.0   -1.796    32.913    26.484    .0201    1438.21
   14.0   -1.796    32.916    26.487    .0216    1438.23
   15.0   -1.796    32.918    26.488    .0231    1438.25
   16.0   -1.796    32.922    26.491    .0246    1438.27
   17.0   -1.796    32.923    26.492    .0262    1438.29
   18.0   -1.794    32.923    26.492    .0277    1438.31
   19.0   -1.793    32.925    26.493    .0292    1438.34
   20.0   -1.792    32.928    26.496    .0308    1438.36
   21.0   -1.792    32.928    26.496    .0323    1438.38
   22.0   -1.791    32.930    26.497    .0338    1438.40
   23.0   -1.791    32.933    26.500    .0353    1438.42
   24.0   -1.792    32.937    26.503    .0368    1438.44
   25.0   -1.793    32.941    26.507    .0384    1438.46
   27.5   -1.795    32.947    26.511    .0421    1438.50
   30.0   -1.795    32.947    26.512    .0459    1438.54
   32.5   -1.793    32.951    26.514    .0497    1438.59
   35.0   -1.788    32.960    26.522    .0534    1438.67
   37.5   -1.788    32.965    26.526    .0572    1438.72
   40.0   -1.784    32.967    26.528    .0609    1438.78
   42.5   -1.781    32.969    26.529    .0646    1438.84
   45.0   -1.775    32.978    26.536    .0684    1438.92
   47.5   -1.771    32.981    26.538    .0721    1438.98
   50.0   -1.766    32.989    26.545    .0758    1439.06
   55.0   -1.758    32.994    26.549    .0831    1439.19
   60.0   -1.748    32.996    26.550    .0905    1439.32
   61.8   -1.746    32.998    26.552    .0931    1439.36
```

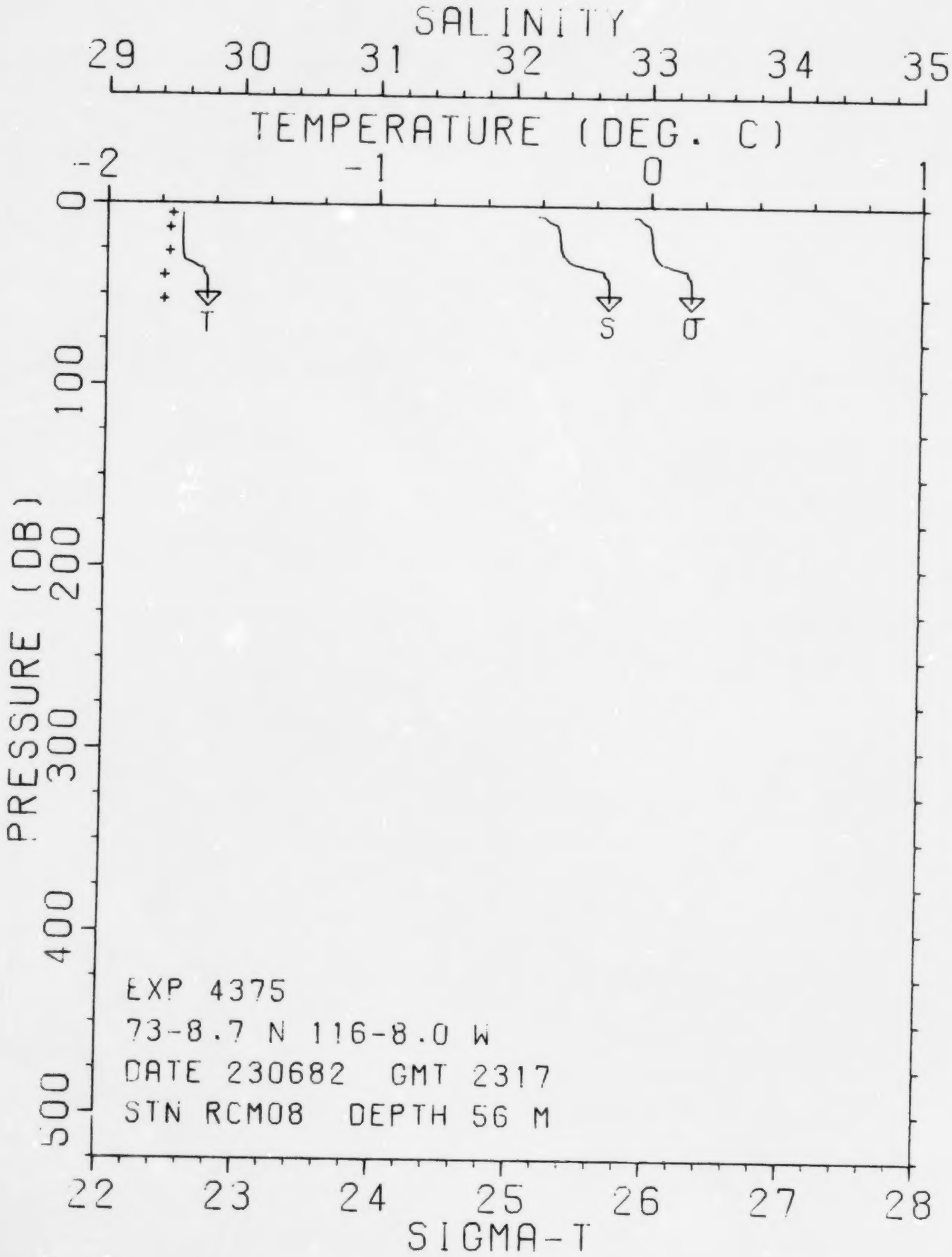

SALINITY
30
31
32
33
34
35
EXP 4373 74-38.4 N 95-1.1 W
DATE 220482 GMT 1845
STN 82031 DEPTH 105 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4374
74-38.4 N 95-1.1 W
DATE 220482 GMT 1905
STN 82031 DEPTH 105 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-021 WESTERN NORTH-WEST PASSAGE
STATION 82031 EXPERIMENT NO. 4374 DATE 220482 GMT 1905
LAT. 74-38.4 N LONG. 095-01.1 W
WATER DEPTH 105.0 M ICE THICKNESS *** M

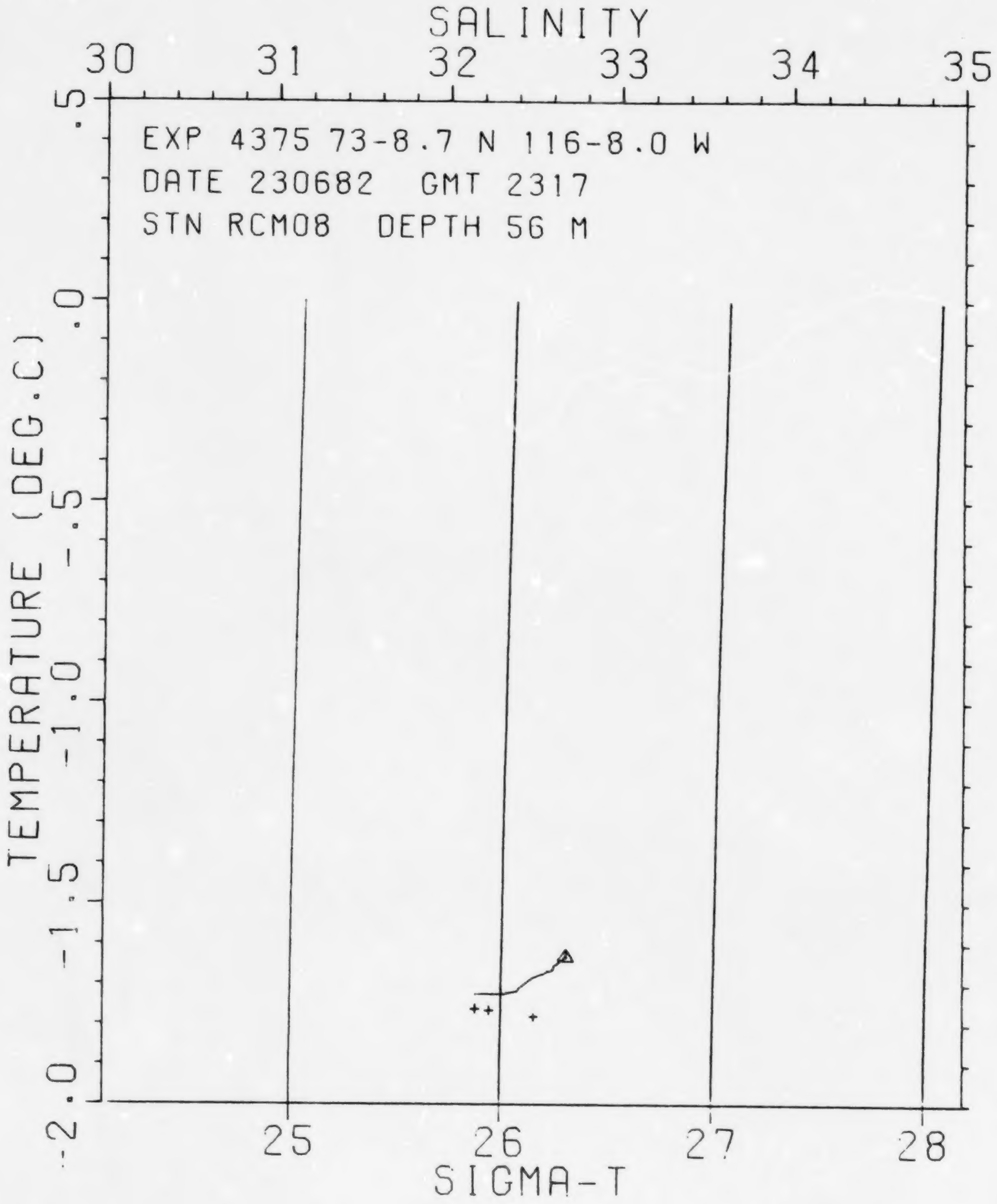
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.1	-1.801	32.902	26.475	.0080	1438.04
6.0	-1.800	32.904	26.476	.0093	1438.06
7.0	-1.801	32.904	26.477	.0108	1438.07
8.0	-1.801	32.903	26.476	.0124	1438.09
9.0	-1.800	32.905	26.477	.0139	1438.11
10.0	-1.800	32.905	26.478	.0155	1438.13
11.0	-1.800	32.906	26.478	.0170	1438.15
12.0	-1.800	32.909	26.481	.0185	1438.17
13.0	-1.800	32.911	26.483	.0201	1438.18
14.0	-1.799	32.909	26.481	.0216	1438.20
15.0	-1.799	32.914	26.485	.0232	1438.23
16.0	-1.798	32.918	26.488	.0247	1438.26
17.0	-1.796	32.922	26.491	.0262	1438.29
18.0	-1.794	32.926	26.494	.0277	1438.32
19.0	-1.792	32.928	26.496	.0293	1438.34
20.0	-1.789	32.936	26.502	.0308	1438.39
21.0	-1.790	32.943	26.508	.0323	1438.41
22.0	-1.790	32.948	26.512	.0338	1438.43
23.0	-1.790	32.954	26.517	.0353	1438.46
24.0	-1.790	32.955	26.518	.0368	1438.48
25.0	-1.789	32.957	26.520	.0383	1438.50
27.5	-1.789	32.961	26.523	.0421	1438.55
30.0	-1.789	32.962	26.524	.0458	1438.59
32.5	-1.788	32.969	26.529	.0496	1438.64
35.0	-1.782	32.976	26.535	.0533	1438.72
37.5	-1.780	32.981	26.539	.0570	1438.78
40.0	-1.779	32.984	26.541	.0607	1438.83
42.5	-1.773	32.994	26.549	.0644	1438.91
45.0	-1.773	32.996	26.551	.0681	1438.96
47.5	-1.760	33.003	26.556	.0717	1439.07
50.0	-1.758	33.005	26.558	.0754	1439.12
55.0	-1.754	33.006	26.559	.0827	1439.23
60.0	-1.738	33.015	26.565	.0900	1439.40
65.0	-1.735	33.016	26.566	.0973	1439.49
69.9	-1.735	33.017	26.567	.1044	1439.58

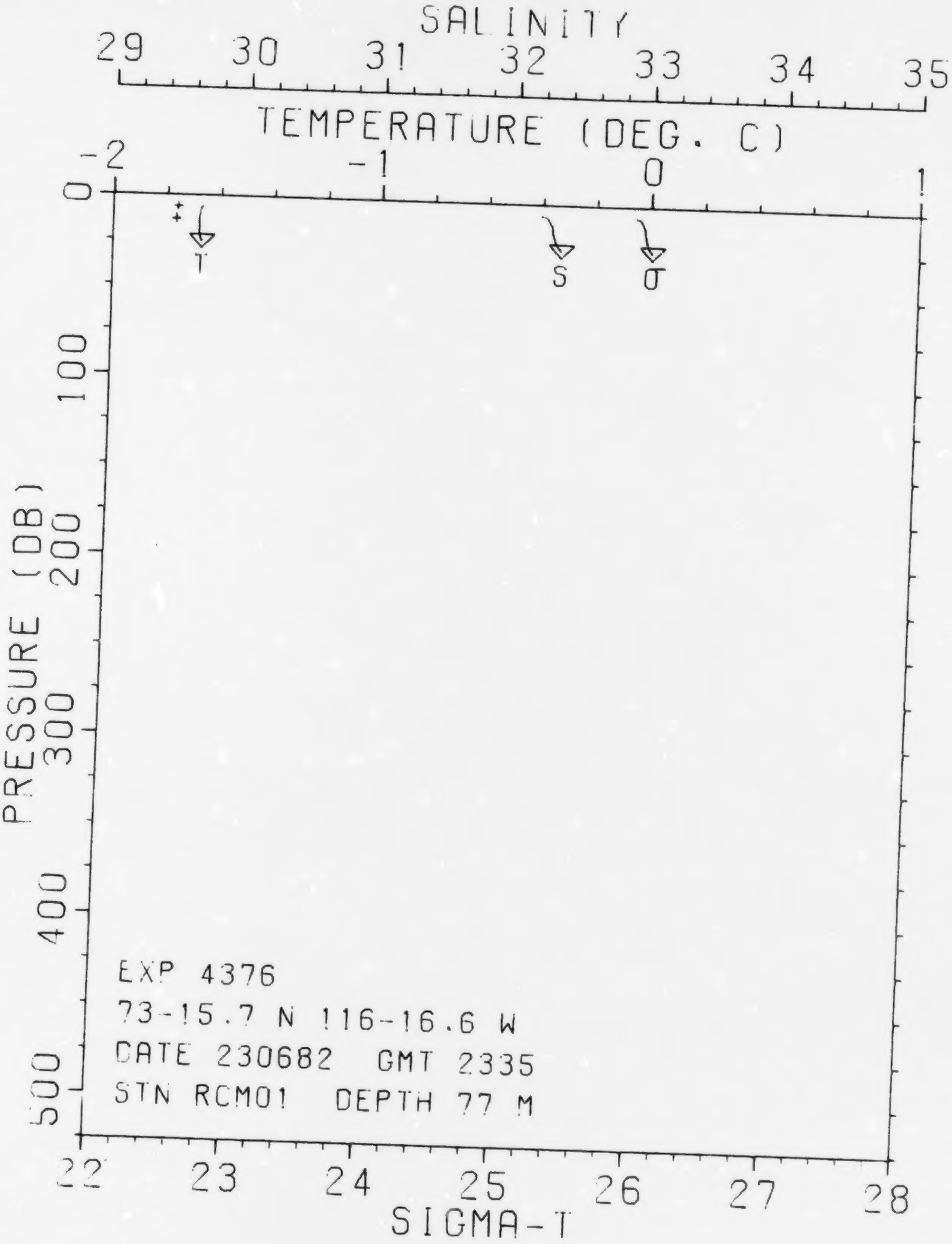

SALINITY
30
31
32
33
34
35
EXP 4374 74-38.4 N 95-1.1 W
DATE 220482 GMT 1905
STN 82031 DEPTH 105 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4375
73-8.7 N 116-8.0 W
DATE 230682 GMT 2317
STN RCM08 DEPTH 56 M
22
23
24
25
26
27
28
SIGMA-T

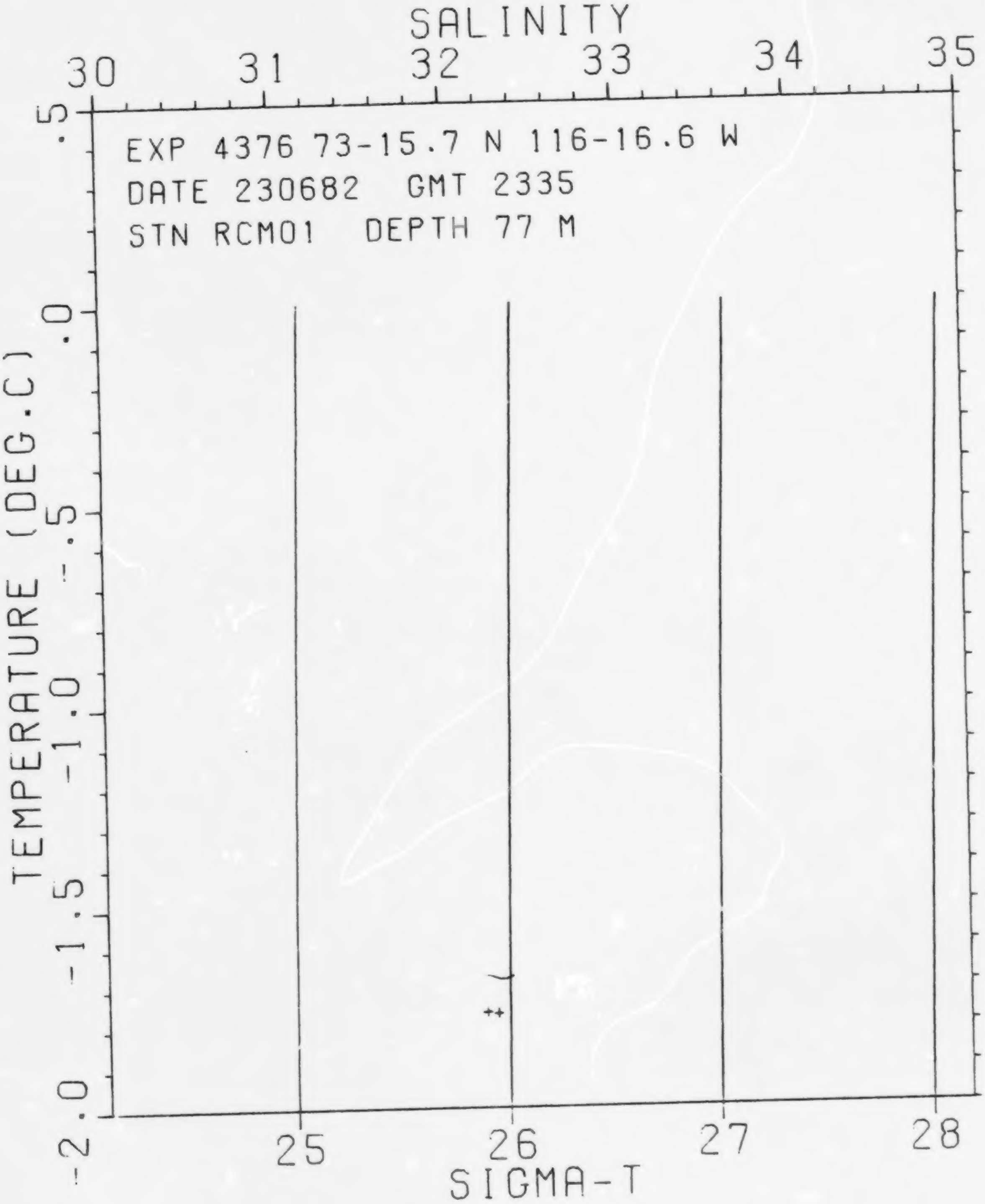
```
CRUISE 015-82-022  WESTERN NORTH-WEST PASSAGE
STATION RCM08  EXPERIMENT NO.   4375   DATE 230682 GMT 2317
LAT. 73-08.7 N   LONG. 116-08.0 W
WATER DEPTH   61.0 M   ICE THICKNESS *** M


PRESSURE   TEMP   SALINITY  SIGMAT    DHA      SOUND
 (DBARS)  (DEG.C)                   (DYN M)    (M/S)

   5.4    -1.724   32.169   25.878   .0119    1437.38
   6.0    -1.724   32.216   25.916   .0132    1437.45
   7.0    -1.724   32.231   25.928   .0153    1437.49
   8.0    -1.724   32.243   25.938   .0174    1437.52
   9.0    -1.724   32.260   25.952   .0194    1437.56
  10.0    -1.724   32.294   25.980   .0214    1437.63
  11.0    -1.725   32.313   25.995   .0234    1437.67
  12.0    -1.723   32.318   25.999   .0254    1437.70
  13.0    -1.724   32.322   26.002   .0274    1437.72
  14.0    -1.725   32.328   26.007   .0294    1437.74
  15.0    -1.724   32.329   26.007   .0314    1437.76
  16.0    -1.724   32.331   26.009   .0334    1437.78
  17.0    -1.724   32.332   26.010   .0354    1437.80
  18.0    -1.725   32.333   26.011   .0374    1437.81
  19.0    -1.724   32.332   26.010   .0393    1437.83
  20.0    -1.724   32.335   26.013   .0413    1437.85
  21.0    -1.724   32.336   26.014   .0433    1437.87
  22.0    -1.724   32.337   26.014   .0453    1437.89
  23.0    -1.724   32.338   26.015   .0473    1437.90
  24.0    -1.723   32.340   26.017   .0493    1437.93
  25.0    -1.724   32.344   26.020   .0512    1437.95
  27.5    -1.722   32.363   26.035   .0562    1438.02
  30.0    -1.719   32.392   26.059   .0610    1438.12
  31.0    -1.717   32.404   26.068   .0630    1438.16
  32.0    -1.706   32.438   26.096   .0649    1438.28
  33.0    -1.688   32.495   26.142   .0668    1438.46
  34.0    -1.677   32.539   26.177   .0686    1438.59
  35.0    -1.666   32.602   26.229   .0704    1438.75
  36.0    -1.645   32.657   26.272   .0722    1438.94
  37.0    -1.645   32.661   26.276   .0739    1438.96
  38.0    -1.644   32.662   26.277   .0756    1438.99
  39.0    -1.641   32.667   26.280   .0773    1439.02
  40.0    -1.632   32.690   26.299   .0791    1439.11
  41.0    -1.631   32.693   26.302   .0808    1439.14
  42.0    -1.631   32.696   26.304   .0825    1439.16
  43.0    -1.631   32.697   26.304   .0842    1439.18
  44.0    -1.630   32.696   26.304   .0859    1439.20
  45.0    -1.631   32.697   26.304   .0876    1439.21
  46.0    -1.632   32.696   26.304   .0893    1439.22
  47.0    -1.633   32.698   26.305   .0910    1439.24
  48.0    -1.632   32.696   26.304   .0927    1439.25
  49.0    -1.632   32.696   26.304   .0944    1439.27
  50.0    -1.632   32.696   26.304   .0961    1439.28
```

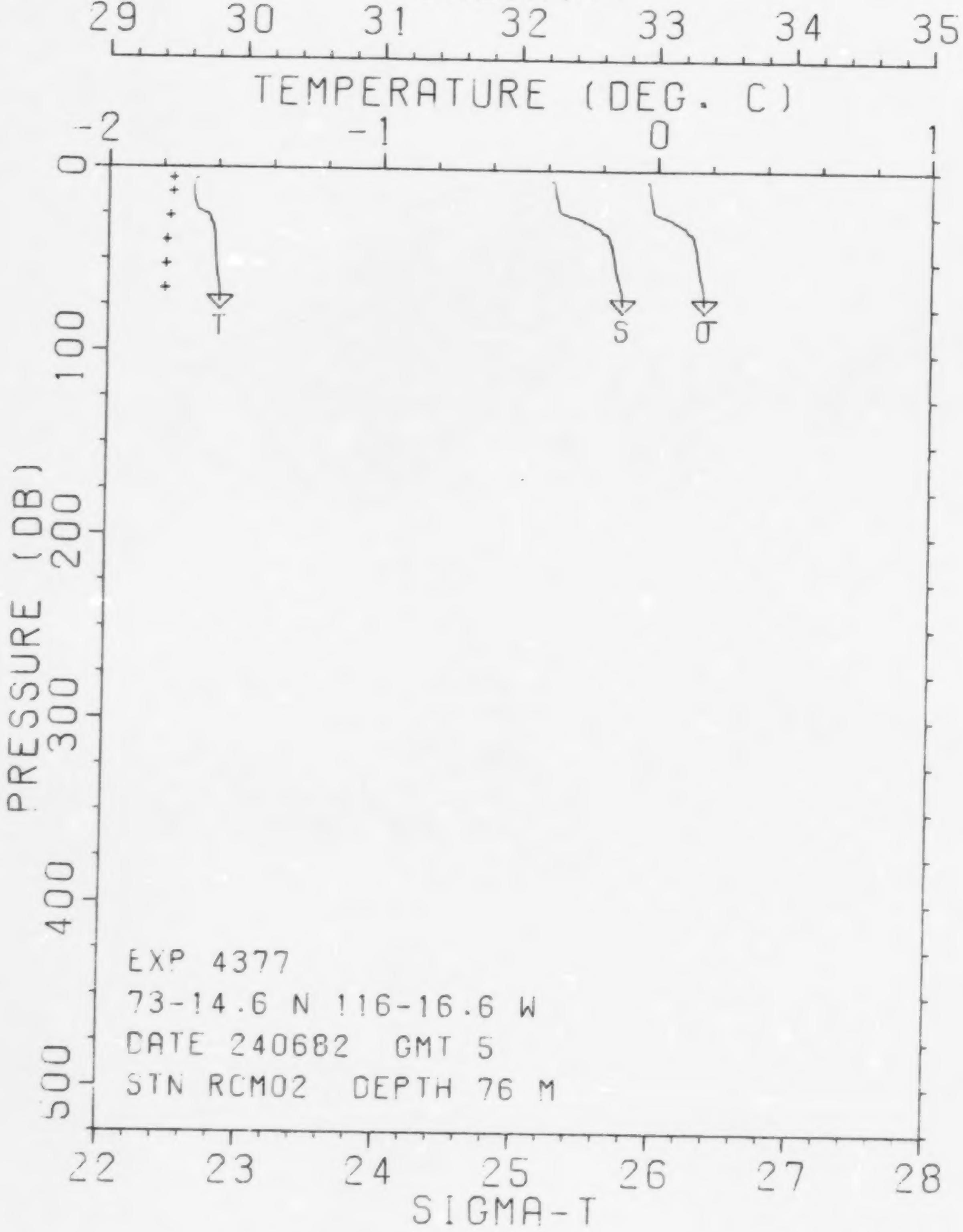
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
51.0	-1.631	32.695	26.303	.0978	1439.30
52.0	-1.631	32.698	26.306	.0995	1439.33
52.8	-1.631	32.691	26.300	.1010	1439.33


SALINITY
30
31
32
33
34
35
EXP 4375 73-8.7 N 116-8.0 W
DATE 230682 GMT 2317
STN RCM08 DEPTH 56 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4376
73-15.7 N 116-16.6 W
DATE 230682 GMT 2335
STN RCM01 DEPTH 77 M
22
23
24
25
26
27
28
SIGMA-T

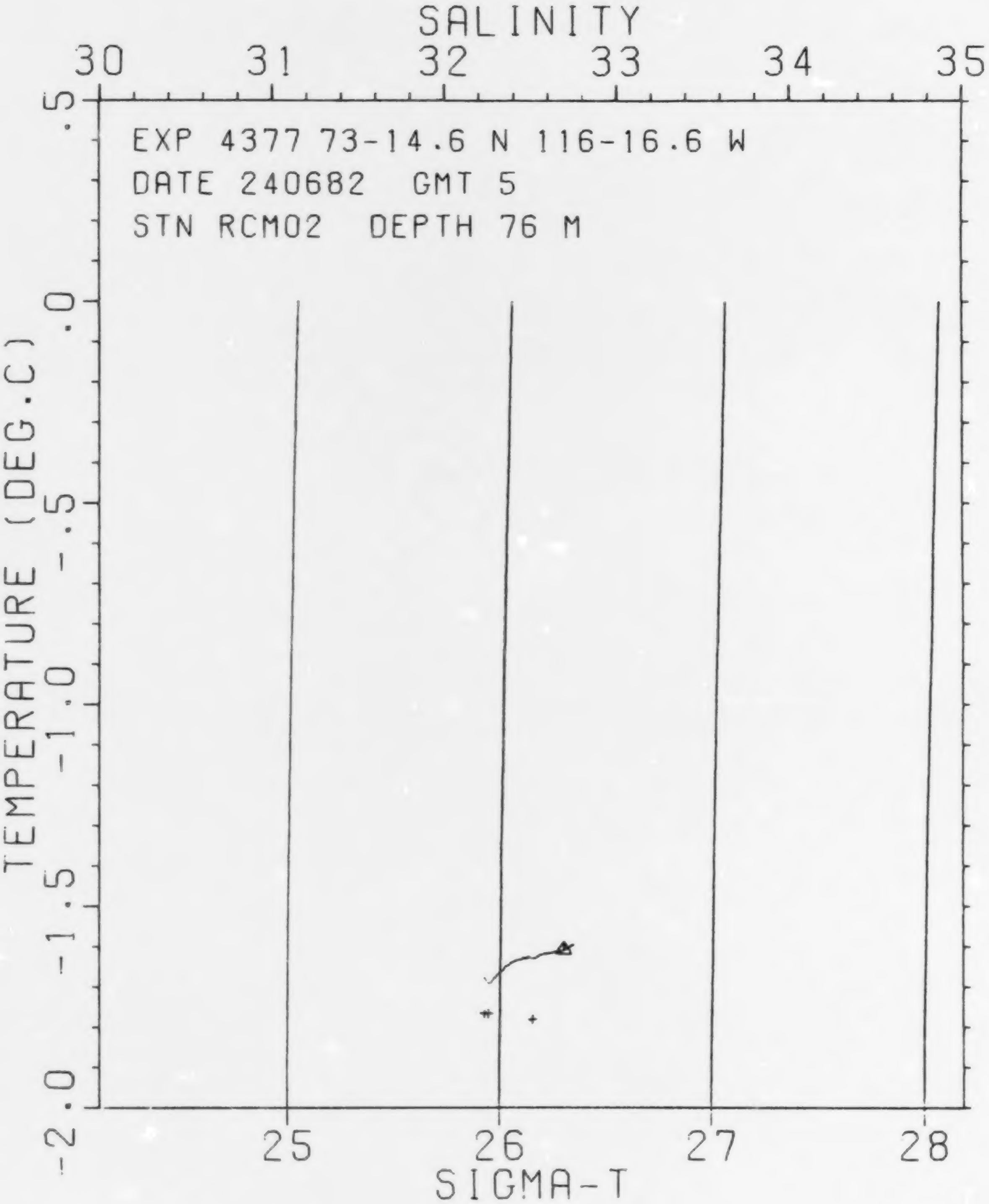
```
CRUISE 015-82-022  WESTERN NORTH-WEST PASSAGE
STATION RCM01  EXPERIMENT NO.   4376   DATE 230682 GMT 2335
LAT. 73-15.7 N   LONG. 116-16.6 W
WATER DEPTH   83.0 M   ICE THICKNESS *** M


PRESSURE   TEMP    SALINITY  SIGMAT    DHA      SOUND
 (DBARS)  (DEG.C)                    (DYN M)    (M/S)

    6.1   -1.671    32.186   25.891   .0133   1437.67
    7.0   -1.675    32.225   25.922   .0152   1437.71
    8.0   -1.677    32.239   25.934   .0173   1437.74
    9.0   -1.678    32.245   25.938   .0193   1437.76
   10.0   -1.679    32.253   25.945   .0214   1437.78
   11.0   -1.681    32.259   25.950   .0234   1437.80
   12.0   -1.681    32.271   25.960   .0255   1437.83
   13.0   -1.681    32.272   25.960   .0275   1437.85
   14.0   -1.682    32.273   25.962   .0295   1437.87
   15.0   -1.681    32.275   25.963   .0316   1437.89
   16.0   -1.681    32.275   25.963   .0336   1437.90
   17.0   -1.679    32.278   25.966   .0356   1437.93
   18.0   -1.679    32.283   25.969   .0376   1437.96
   19.0   -1.680    32.289   25.975   .0397   1437.98
   20.0   -1.681    32.291   25.976   .0417   1437.99
   21.0   -1.681    32.295   25.980   .0437   1438.02
   22.0   -1.679    32.304   25.986   .0457   1438.05
   23.0   -1.679    32.310   25.992   .0477   1438.08
   24.0   -1.676    32.321   26.000   .0497   1438.12
   25.0   -1.672    32.336   26.013   .0517   1438.18
   25.7   -1.671    32.338   26.014   .0532   1438.20
```

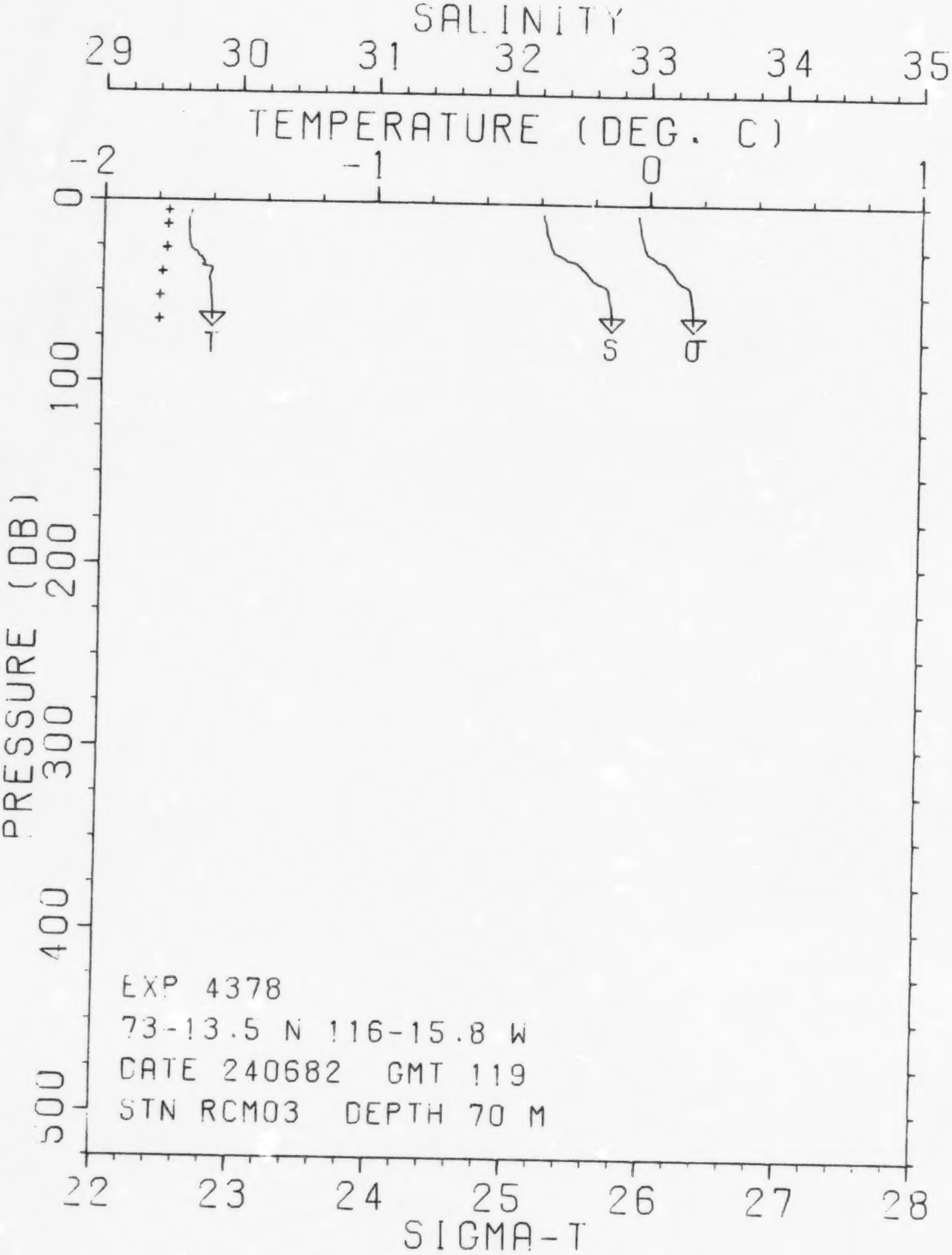

SALINITY
30
31
32
33
34
35
EXP 4376 73-15.7 N 116-16.6 W
DATE 230682 GMT 2335
STN RCM01 DEPTH 77 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4377
73-14.6 N 116-16.6 W
DATE 240682 GMT 5
STN RCM02 DEPTH 76 M
22
23
24
25
26
27
28
SIGMA-T

```
CRUISE 015-82-022  WESTERN NORTH-WEST PASSAGE
STATION RCM02  EXPERIMENT NO.   4377   DATE 240682 GMT     5
LAT. 73-14.6 N    LONG. 116-16.6 W
WATER DEPTH    83.0 M   ICE THICKNESS *** M

PRESSURE    TEMP    SALINITY   SIGMAT      DHA      SOUND
 (DBARS)  (DEG.C)                        (DYN M)    (M/S)

    5.6   -1.677    32.230    25.927    .0118    1437.69
    6.0   -1.683    32.241    25.935    .0126    1437.69
    7.0   -1.686    32.247    25.940    .0146    1437.69
    8.0   -1.689    32.250    25.943    .0167    1437.70
    9.0   -1.691    32.252    25.944    .0187    1437.71
   10.0   -1.691    32.253    25.945    .0208    1437.73
   11.0   -1.690    32.252    25.945    .0228    1437.75
   12.0   -1.691    32.254    25.946    .0249    1437.76
   13.0   -1.691    32.257    25.948    .0269    1437.78
   14.0   -1.690    32.259    25.950    .0290    1437.80
   15.0   -1.690    32.265    25.955    .0310    1437.83
   16.0   -1.689    32.267    25.957    .0330    1437.85
   17.0   -1.688    32.273    25.961    .0351    1437.88
   18.0   -1.686    32.273    25.962    .0371    1437.91
   19.0   -1.686    32.277    25.965    .0391    1437.93
   20.0   -1.682    32.279    25.966    .0412    1437.97
   21.0   -1.680    32.261    25.968    .0432    1438.00
   22.0   -1.679    32.284    25.970    .0452    1438.02
   23.0   -1.674    32.296    25.980    .0472    1438.08
   24.0   -1.662    32.322    26.001    .0492    1438.19
   25.0   -1.646    32.366    26.036    .0512    1438.35
   27.5   -1.628    32.465    26.116    .0560    1438.61
   30.0   -1.626    32.533    26.171    .0606    1438.76
   32.5   -1.617    32.588    26.216    .0652    1438.92
   35.0   -1.614    32.635    26.254    .0696    1439.04
   37.5   -1.613    32.653    26.268    .0740    1439.11
   40.0   -1.612    32.657    26.272    .0783    1439.16
   42.5   -1.611    32.671    26.283    .0826    1439.23
   45.0   -1.611    32.677    26.288    .0869    1439.28
   47.5   -1.609    32.683    26.292    .0912    1439.33
   50.0   -1.609    32.689    26.296    .0955    1439.39
   52.0   -1.607    32.692    26.300    .0989    1439.43
   53.0   -1.608    32.694    26.302    .1006    1439.45
   54.0   -1.607    32.695    26.302    .1023    1439.47
   55.0   -1.606    32.698    26.305    .1040    1439.50
   56.0   -1.606    32.702    26.308    .1057    1439.51
   57.0   -1.606    32.705    26.311    .1074    1439.54
   58.0   -1.605    32.706    26.312    .1091    1439.56
   59.0   -1.603    32.711    26.316    .1108    1439.59
   60.0   -1.602    32.716    26.319    .1125    1439.62
   61.0   -1.600    32.723    26.325    .1142    1439.65
   62.0   -1.600    32.726    26.327    .1159    1439.67
   63.0   -1.599    32.726    26.327    .1176    1439.70
```

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
64.0	-1.597	32.733	26.333	.1192	1439.73
65.0	-1.597	32.737	26.336	.1209	1439.76
66.0	-1.595	32.739	26.338	.1226	1439.78
67.0	-1.595	32.742	26.340	.1243	1439.81
68.0	-1.595	32.742	26.341	.1259	1439.82
69.0	-1.594	32.743	26.341	.1276	1439.84
70.0	-1.594	32.743	26.342	.1293	1439.86
71.0	-1.594	32.744	26.342	.1309	1439.87
72.0	-1.595	32.744	26.342	.1326	1439.89
73.0	-1.594	32.744	26.342	.1343	1439.91
73.8	-1.594	32.745	26.343	.1355	1439.92

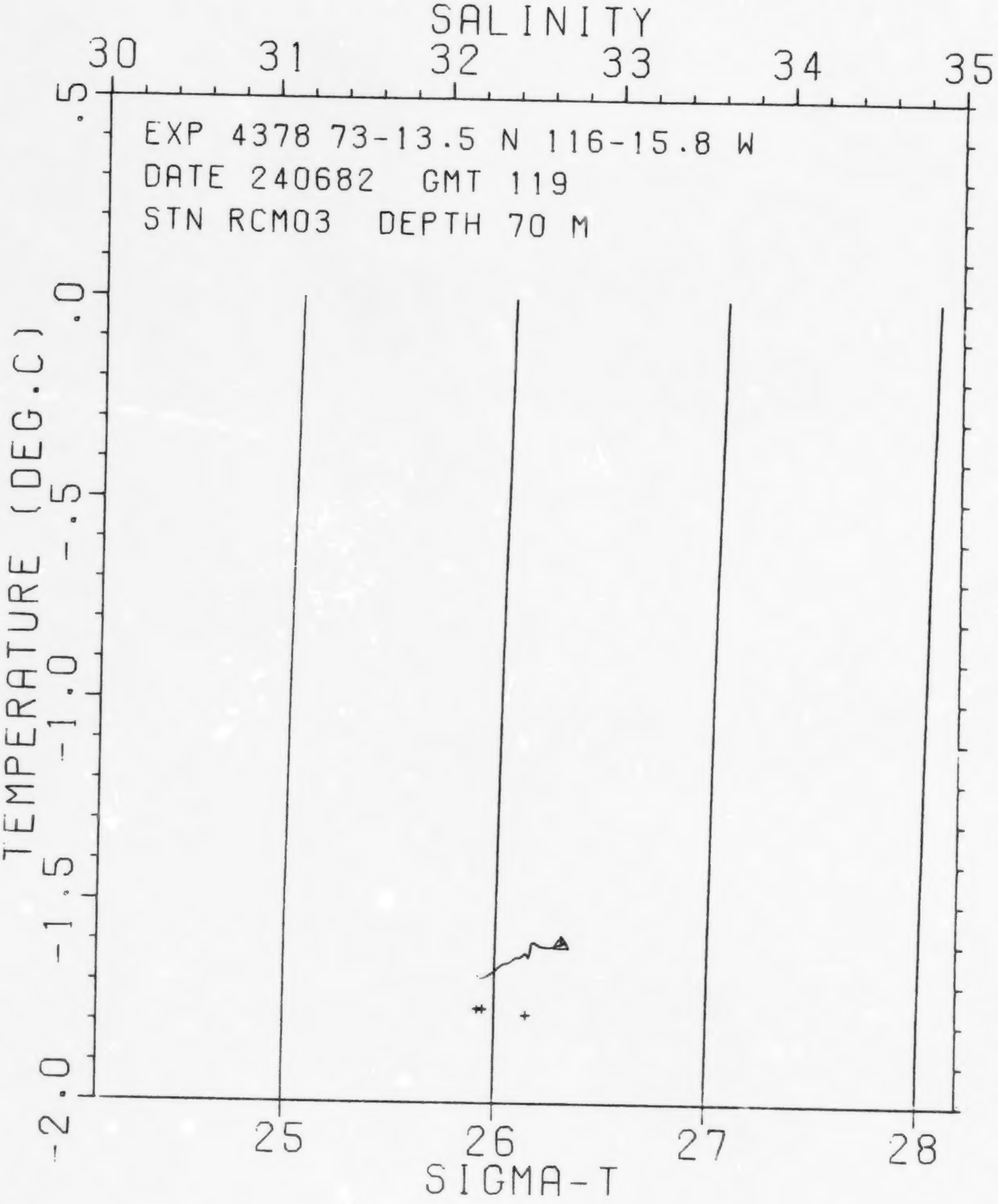

SALINITY
30
31
32
33
34
35
EXP 4377 73-14.6 N 116-16.6 W
DATE 240682 GMT 5
STN RCM02 DEPTH 76 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

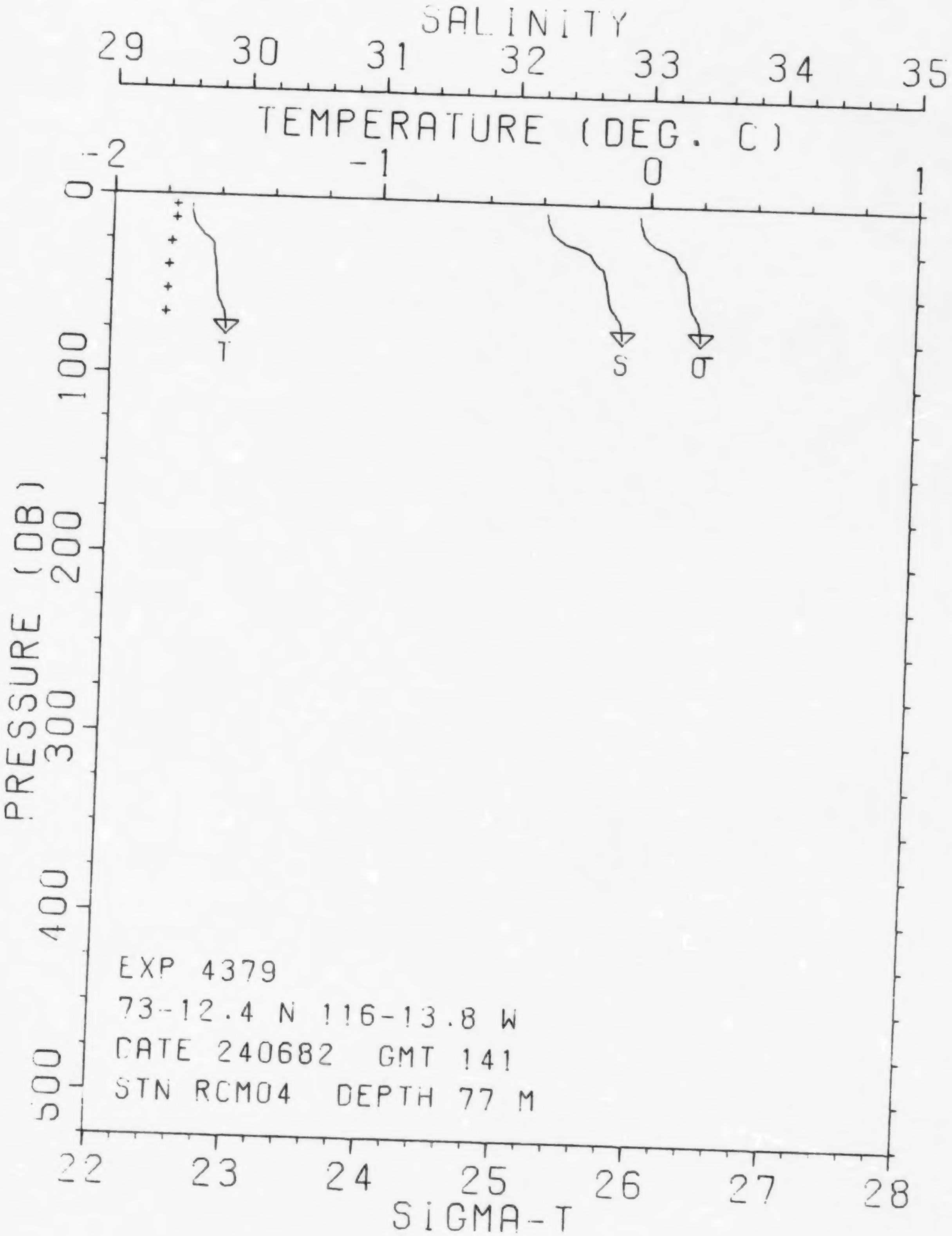

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4378
73-13.5 N 116-15.8 W
DATE 240682 GMT 119
STN RCM03 DEPTH 70 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-022 WESTERN NORTH-WEST PASSAGE
STATION RCM03 EXPERIMENT NO. 4378 DATE 240682 GMT 119
LAT. 73-13.5 N LONG. 116-15.8 W
WATER DEPTH 75.0 M ICE THICKNESS *** M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.8	-1.682	32.219	25.918	.0119	1437.66
6.0	-1.681	32.219	25.917	.0125	1437.66
7.0	-1.681	32.218	25.917	.0145	1437.68
8.0	-1.683	32.223	25.920	.0166	1437.69
9.0	-1.685	32.228	25.925	.0187	1437.70
10.0	-1.689	32.235	25.931	.0207	1437.71
11.0	-1.690	32.239	25.934	.0228	1437.73
12.0	-1.690	32.240	25.935	.0249	1437.75
13.0	-1.690	32.242	25.936	.0269	1437.77
14.0	-1.689	32.244	25.938	.0290	1437.79
15.0	-1.689	32.243	25.937	.0310	1437.81
16.0	-1.689	32.247	25.941	.0331	1437.83
17.0	-1.688	32.251	25.943	.0351	1437.85
18.0	-1.689	32.257	25.949	.0372	1437.88
19.0	-1.687	32.262	25.953	.0392	1437.91
20.0	-1.686	32.266	25.956	.0413	1437.93
21.0	-1.685	32.273	25.962	.0433	1437.97
22.0	-1.685	32.278	25.965	.0453	1437.99
23.0	-1.684	32.276	25.964	.0473	1438.01
24.0	-1.682	32.282	25.969	.0494	1438.04
25.0	-1.681	32.288	25.973	.0514	1438.07
27.5	-1.670	32.323	26.002	.0564	1438.21
30.0	-1.651	32.386	26.053	.0613	1438.43
32.5	-1.635	32.475	26.125	.0661	1438.67
35.0	-1.629	32.506	26.150	.0708	1438.79
37.5	-1.600	32.542	26.178	.0754	1439.02
40.0	-1.604	32.567	26.198	.0799	1439.07
42.5	-1.610	32.602	26.227	.0844	1439.13
44.0	-1.612	32.639	26.257	.0871	1439.20
45.0	-1.606	32.676	26.287	.0888	1439.30
46.0	-1.605	32.694	26.302	.0905	1439.35
47.0	-1.605	32.700	26.306	.0922	1439.37
48.0	-1.604	32.702	26.308	.0939	1439.40
49.0	-1.603	32.704	26.310	.0956	1439.42
50.0	-1.603	32.706	26.312	.0973	1439.44
51.0	-1.604	32.708	26.313	.0990	1439.45
52.0	-1.602	32.710	26.315	.1007	1439.48
53.0	-1.602	32.712	26.316	.1024	1439.50
54.0	-1.602	32.716	26.319	.1041	1439.52
55.0	-1.600	32.719	26.322	.1058	1439.55
56.0	-1.600	32.723	26.325	.1075	1439.57
57.0	-1.601	32.727	26.328	.1091	1439.59
58.0	-1.600	32.725	26.327	.1108	1439.61

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
59.0	-1.599	32.726	26.328	.1125	1439.63
60.0	-1.599	32.727	26.329	.1142	1439.65
61.0	-1.599	32.728	26.329	.1159	1439.67
62.0	-1.599	32.727	26.329	.1175	1439.68
63.0	-1.599	32.728	26.329	.1192	1439.70
64.0	-1.600	32.729	26.330	.1209	1439.71
65.0	-1.599	32.728	26.329	.1226	1439.73
65.8	-1.599	32.728	26.329	.1240	1439.75

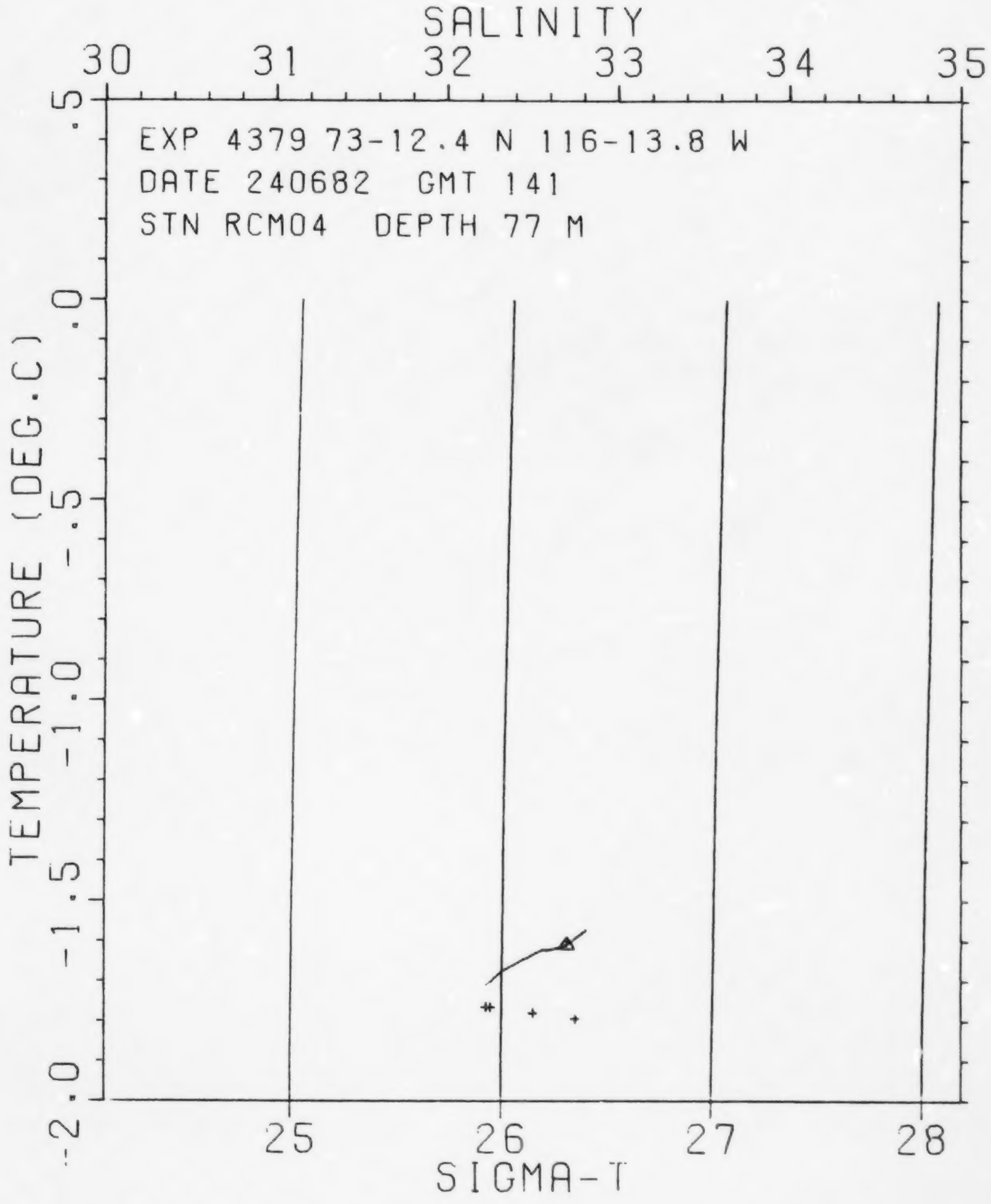

SALINITY
30
31
32
33
34
35
.5
.0
-.5
-1.0
-1.5
-2.0
TEMPERATURE (DEG.C)
EXP 4378 73-13.5 N 116-15.8 W
DATE 240682 GMT 119
STN RCM03 DEPTH 70 M
25
26
27
28
SIGMA-T

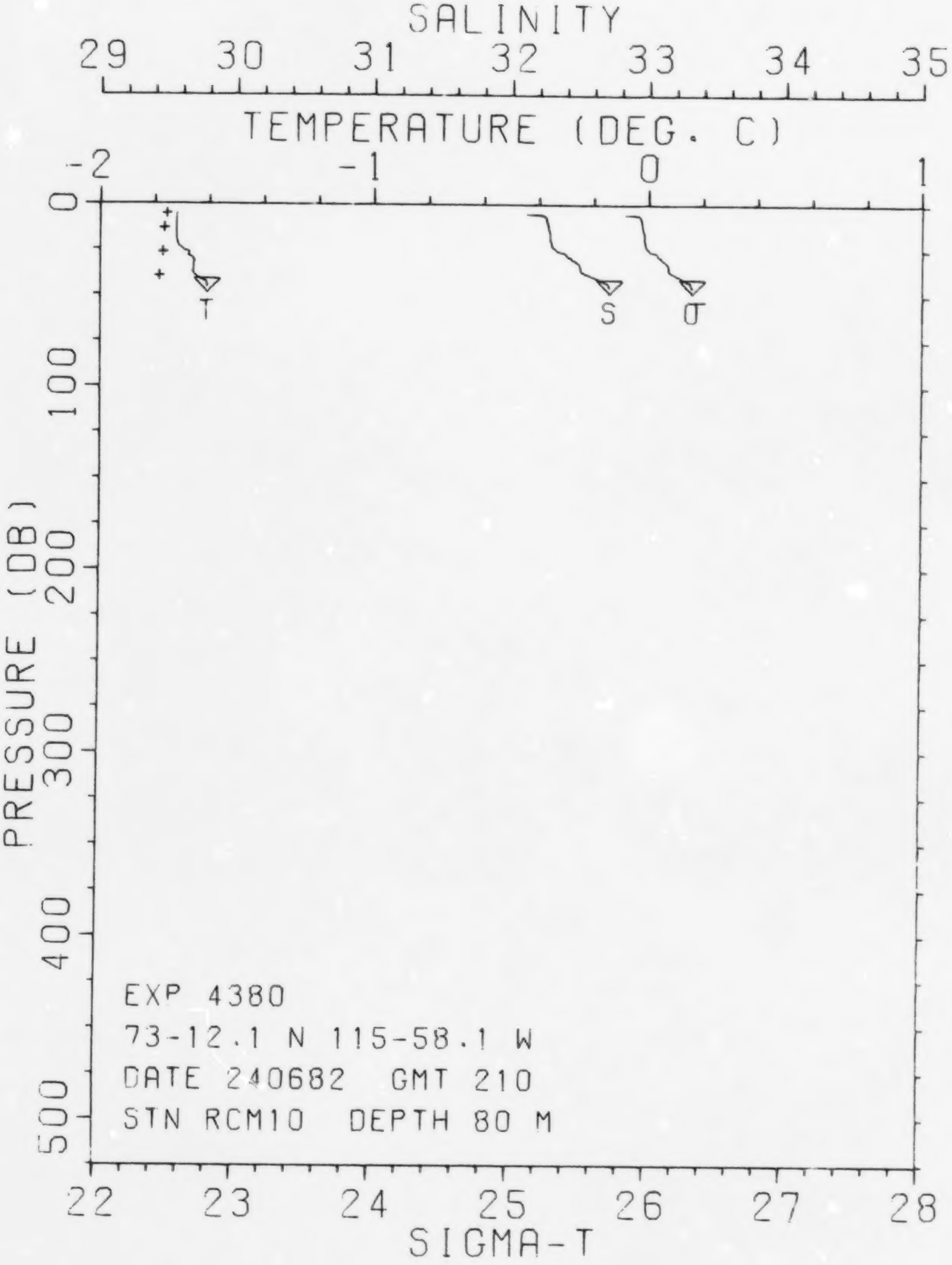

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4379
73-12.4 N 116-13.8 W
DATE 240682 GMT 141
STN RCM04 DEPTH 77 M
SIGMA-T
22
23
24
25
26
27
28

CRUISE 015-82-022 WESTERN NORTH-WEST PASSAGE
STATION RCM04 EXPERIMENT NO. 4379 DATE 240682 GMT 141
LAT. 73-12.4 N LONG. 116-13.8 W
WATER DEPTH 83.0 M ICE THICKNESS *** M

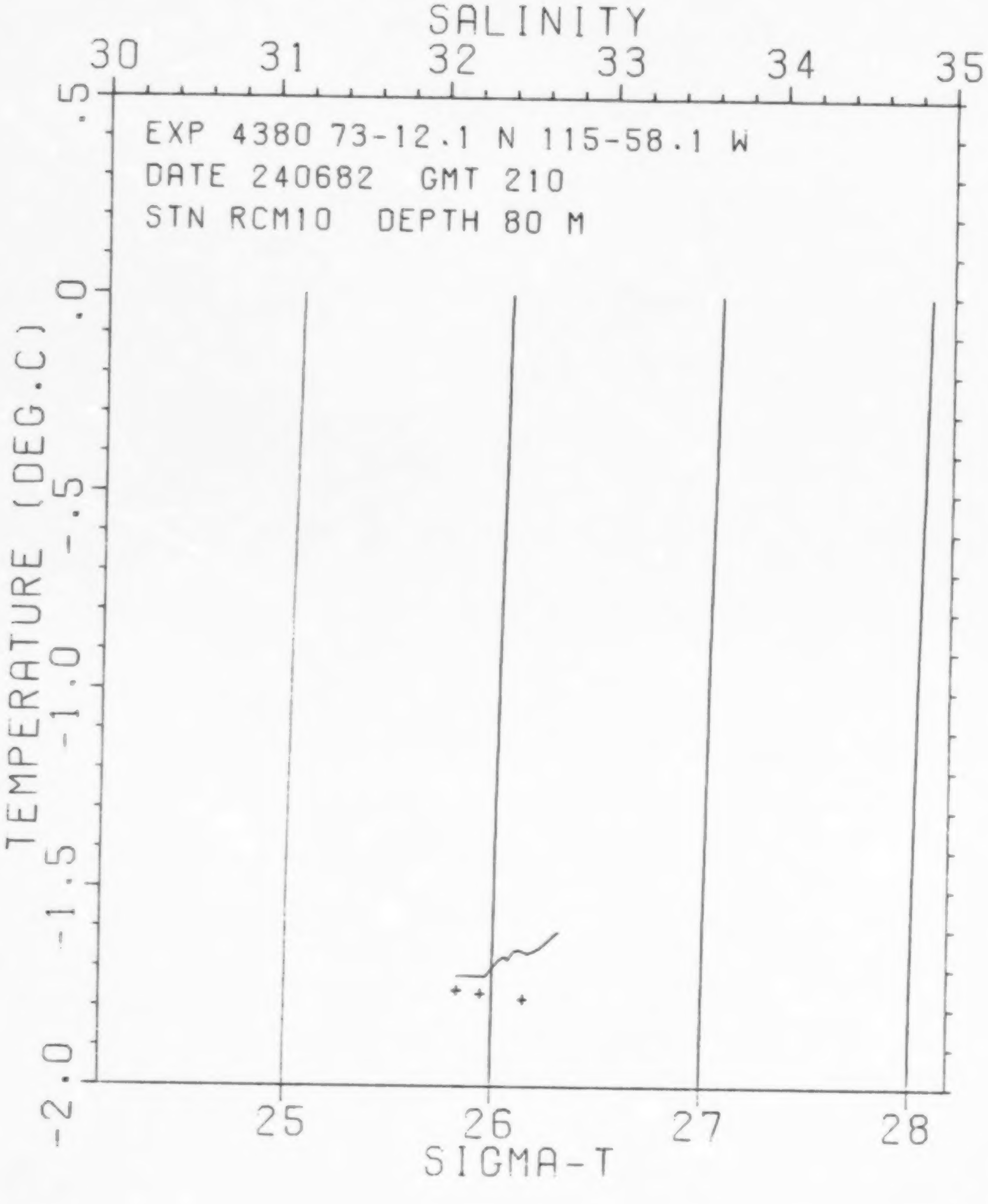
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.6	-1.707	32.227	25.924	.0116	1437.54
6.0	-1.708	32.227	25.925	.0124	1437.54
7.0	-1.708	32.233	25.930	.0145	1437.57
8.0	-1.707	32.236	25.931	.0166	1437.59
9.0	-1.706	32.238	25.933	.0186	1437.62
10.0	-1.707	32.233	25.929	.0207	1437.62
11.0	-1.706	32.237	25.933	.0228	1437.65
12.0	-1.702	32.246	25.940	.0248	1437.70
13.0	-1.701	32.252	25.945	.0269	1437.73
14.0	-1.700	32.259	25.950	.0289	1437.76
15.0	-1.698	32.263	25.953	.0310	1437.79
16.0	-1.696	32.266	25.956	.0330	1437.82
17.0	-1.690	32.276	25.964	.0350	1437.88
18.0	-1.685	32.292	25.977	.0370	1437.94
19.0	-1.681	32.307	25.989	.0391	1438.00
20.0	-1.674	32.324	26.003	.0411	1438.07
21.0	-1.669	32.345	26.020	.0430	1438.14
22.0	-1.663	32.364	26.035	.0450	1438.21
23.0	-1.656	32.399	26.063	.0470	1438.31
24.0	-1.645	32.446	26.101	.0489	1438.45
25.0	-1.638	32.481	26.129	.0508	1438.55
27.5	-1.622	32.558	26.191	.0554	1438.77
30.0	-1.622	32.574	26.205	.0599	1438.84
32.5	-1.622	32.601	26.226	.0644	1438.91
35.0	-1.619	32.627	26.247	.0686	1439.00
37.5	-1.614	32.665	26.279	.0731	1439.12
40.0	-1.615	32.673	26.285	.0774	1439.17
42.5	-1.611	32.682	26.292	.0817	1439.24
45.0	-1.611	32.688	26.297	.0860	1439.29
47.5	-1.609	32.693	26.301	.0903	1439.35
50.0	-1.609	32.698	26.305	.0946	1439.40
52.0	-1.608	32.703	26.309	.0980	1439.44
53.0	-1.606	32.703	26.309	.0997	1439.47
54.0	-1.606	32.704	26.310	.1014	1439.48
55.0	-1.606	32.709	26.314	.1030	1439.51
56.0	-1.605	32.714	26.318	.1047	1439.54
57.0	-1.604	32.719	26.322	.1064	1439.57
58.0	-1.600	32.726	26.327	.1081	1439.61
59.0	-1.599	32.733	26.333	.1098	1439.64
60.0	-1.594	32.745	26.343	.1115	1439.70
61.0	-1.589	32.760	26.355	.1131	1439.76
62.0	-1.588	32.765	26.359	.1148	1439.79
63.0	-1.586	32.770	26.363	.1164	1439.82

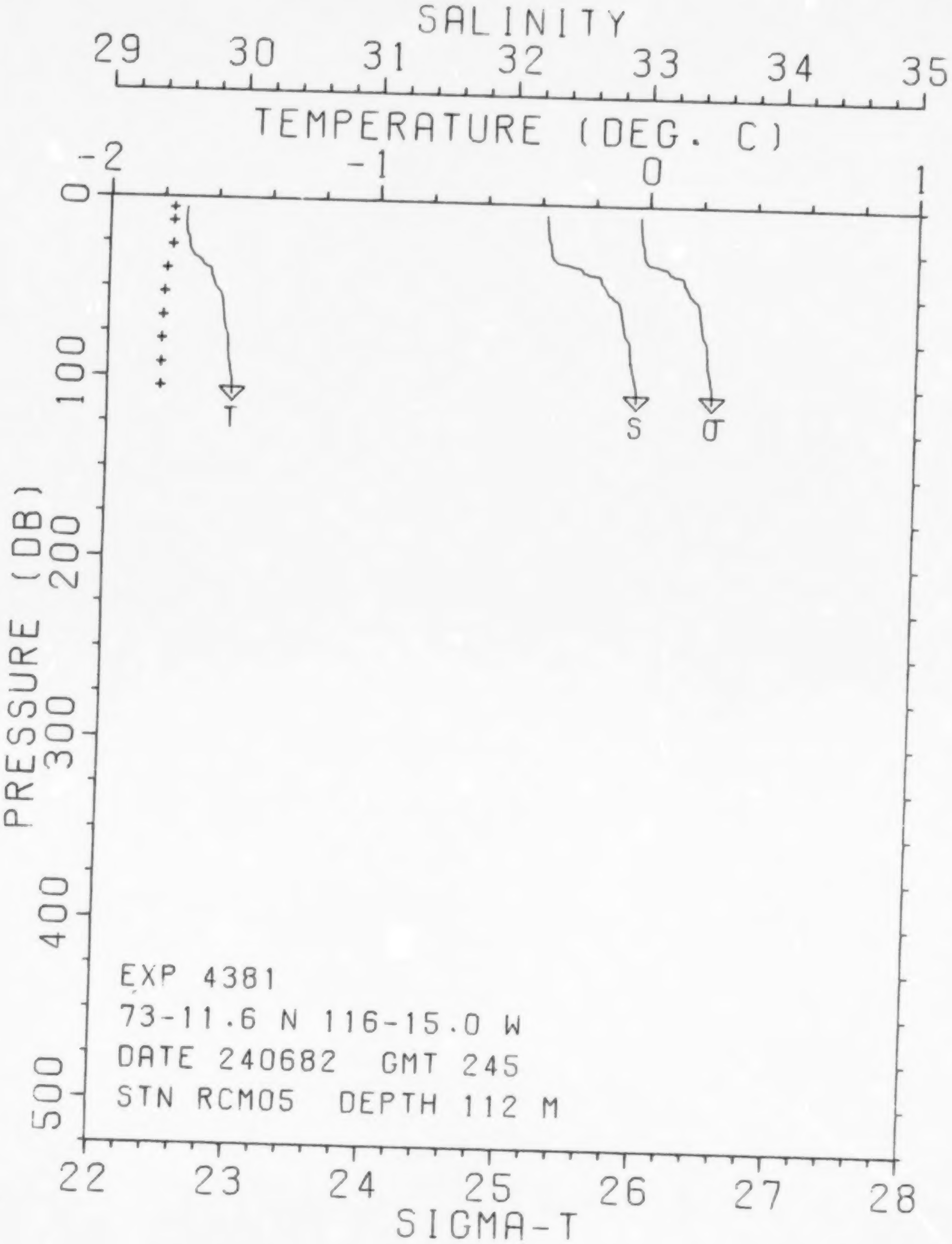
PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
64.0	-1.582	32.780	26.371	.1181	1439.87
65.0	-1.578	32.792	26.380	.1197	1439.92
66.0	-1.577	32.800	26.387	.1213	1439.95
67.0	-1.577	32.799	26.386	.1230	1439.97
68.0	-1.576	32.803	26.390	.1246	1440.00
69.0	-1.575	32.802	26.388	.1262	1440.01
70.0	-1.574	32.808	26.394	.1278	1440.04
71.0	-1.573	32.809	26.395	.1294	1440.07
72.0	-1.573	32.810	26.395	.1311	1440.09
73.0	-1.572	32.812	26.397	.1327	1440.11
74.0	-1.572	32.813	26.398	.1343	1440.13
75.0	-1.572	32.814	26.398	.1359	1440.14
75.3	-1.572	32.814	26.398	.1363	1440.15


SALINITY
30
31
32
33
34
35
EXP 4379 73-12.4 N 116-13.8 W
DATE 240682 GMT 141
STN RCM04 DEPTH 77 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
T
S
σ
PRESSURE (DB)
0
100
200
300
400
500
EXP 4380
73-12.1 N 115-58.1 W
DATE 240682 GMT 210
STN RCM10 DEPTH 80 M
22
23
24
25
26
27
28
SIGMA-T

```
CRUISE 015-82-022  WESTERN NORTH-WEST PASSAGE
STATION RCM10  EXPERIMENT NO.    438C   DATE 240682 GMT  210
LAT. 73-12.1 N   LONG. 115-58.1 W
WATER DEPTH   84.0 M   ICE THICKNESS *** M

PRESSURE   TEMP   SALINITY  SIGMAT     DHA      SOUND
 (DBARS)  (DEG.C)                    (DYN M)    (M/S)

    5.3   -1.721   32.110   25.829    .0126   1437.31
    6.0   -1.721   32.232   25.929    .0142   1437.49
    7.0   -1.721   32.249   25.943    .0163   1437.53
    8.0   -1.721   32.256   25.948    .0183   1437.56
    9.0   -1.721   32.257   25.949    .0204   1437.57
   10.0   -1.722   32.262   25.953    .0224   1437.59
   11.0   -1.722   32.263   25.954    .0245   1437.61
   12.0   -1.721   32.267   25.957    .0265   1437.63
   13.0   -1.722   32.269   25.959    .0285   1437.65
   14.0   -1.722   32.272   25.961    .0306   1437.67
   15.0   -1.722   32.272   25.962    .0326   1437.69
   16.0   -1.723   32.280   25.968    .0346   1437.71
   17.0   -1.721   32.282   25.970    .0367   1437.74
   18.0   -1.721   32.281   25.969    .0387   1437.76
   19.0   -1.721   32.281   25.969    .0407   1437.77
   20.0   -1.721   32.280   25.968    .0427   1437.79
   21.0   -1.718   32.290   25.976    .0448   1437.83
   22.0   -1.718   32.290   25.976    .0468   1437.85
   23.0   -1.714   32.294   25.979    .0488   1437.89
   24.0   -1.707   32.308   25.990    .0508   1437.96
   25.0   -1.698   32.323   26.002    .0528   1438.04
   26.0   -1.691   32.339   26.015    .0548   1438.11
   27.0   -1.671   32.397   26.062    .0568   1438.30
   28.0   -1.674   32.403   26.067    .0587   1438.31
   29.0   -1.679   32.415   26.077    .0606   1438.32
   30.0   -1.661   32.441   26.097    .0625   1438.46
   31.0   -1.657   32.462   26.115    .0644   1438.53
   32.0   -1.656   32.482   26.130    .0663   1438.57
   33.0   -1.658   32.497   26.142    .0682   1438.60
   34.0   -1.659   32.499   26.144    .0700   1438.62
   35.0   -1.660   32.501   26.146    .0719   1438.63
   36.0   -1.659   32.501   26.146    .0737   1438.65
   37.0   -1.660   32.505   26.149    .0756   1438.67
   38.0   -1.665   32.531   26.170    .0774   1438.70
   39.0   -1.656   32.571   26.203    .0792   1438.82
   40.0   -1.650   32.598   26.225    .0810   1438.90
   41.0   -1.636   32.635   26.255    .0828   1439.03
   42.0   -1.629   32.653   26.269    .0845   1439.11
   43.0   -1.612   32.693   26.301    .0863   1439.26
   44.0   -1.610   32.707   26.313    .0880   1439.31
   45.0   -1.609   32.710   26.315    .0897   1439.33
   45.0   -1.610   32.712   26.316    .0911   1439.35
```

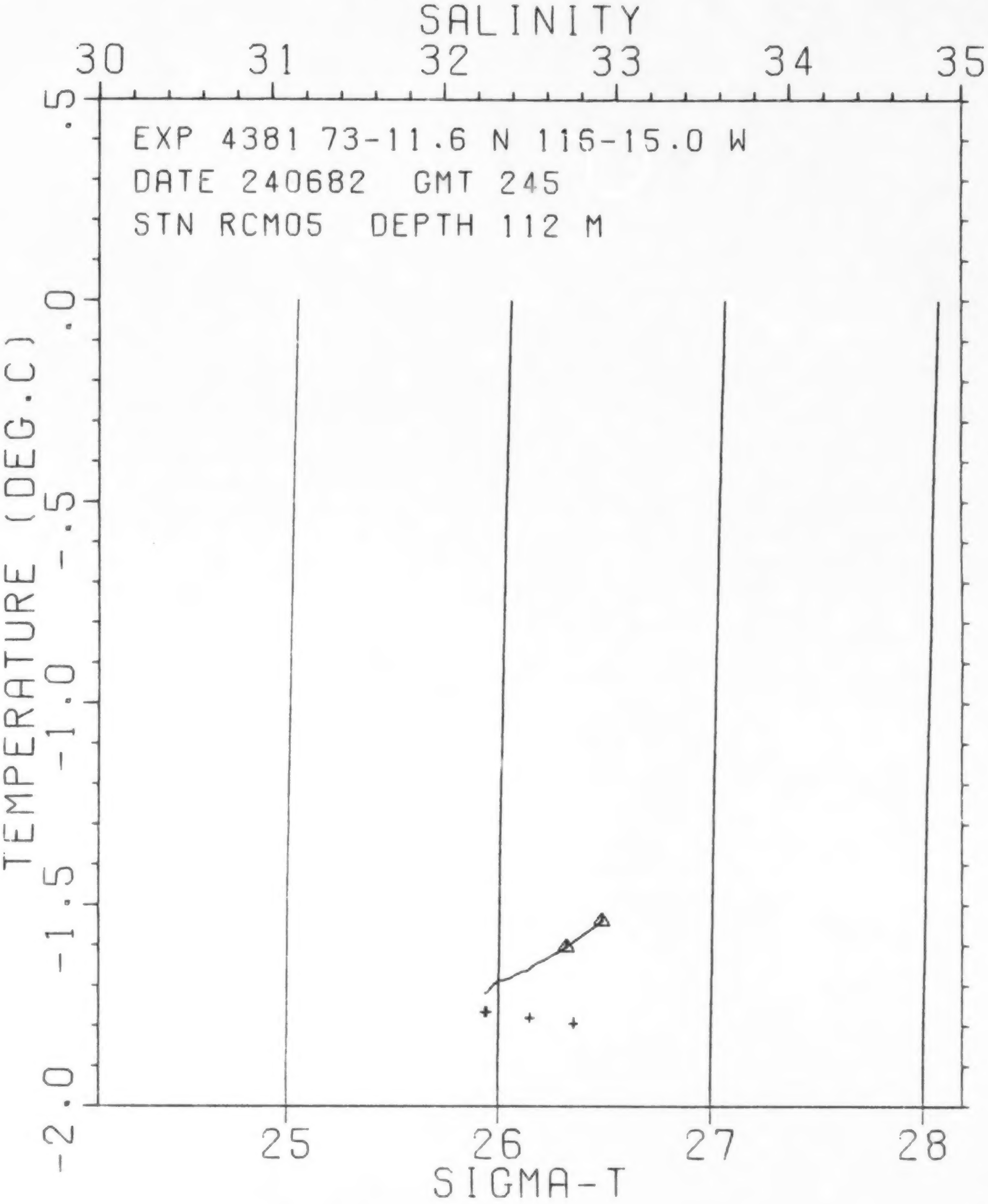

SALINITY
30
31
32
33
34
35
EXP 4380 73-12.1 N 115-58.1 W
DATE 240682 GMT 210
STN RCM10 DEPTH 80 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

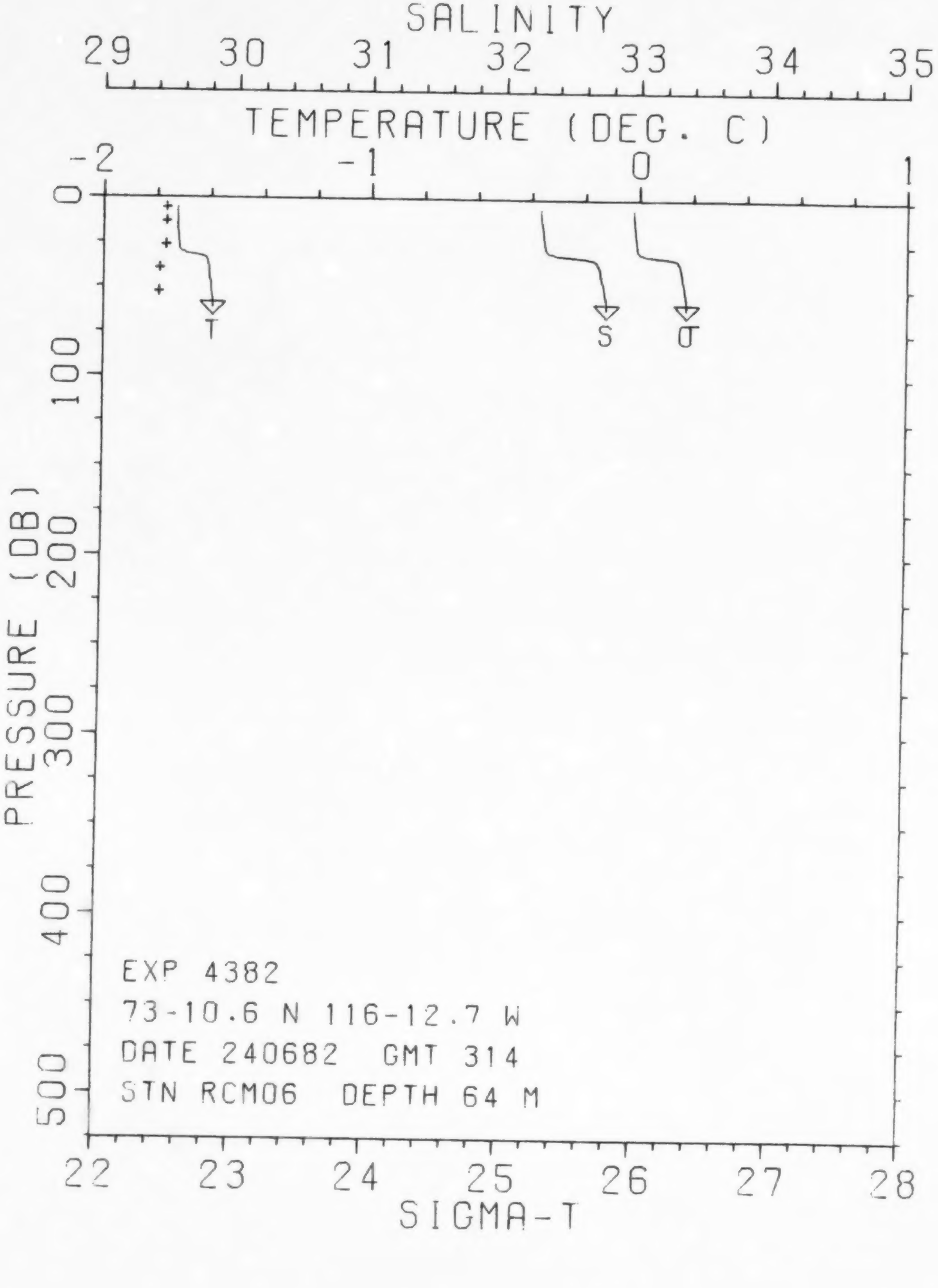

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4381
73-11.6 N 116-15.0 W
DATE 240682 GMT 245
STN RCM05 DEPTH 112 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-022 WESTERN NORTH-WEST PASSAGE
STATION PCM05 EXPERIMENT NO. 4381 DATE 240682 GMT 245
LAT. 73-11.6 N LONG. 116-15.0 W
WATER DEPTH 120.0 M ICE THICKNESS *** M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.9	-1.718	32.240	25.935	.0120	1437.51
6.0	-1.717	32.239	25.935	.0123	1437.52
7.0	-1.717	32.238	25.934	.0144	1437.53
8.0	-1.719	32.242	25.937	.0164	1437.55
9.0	-1.719	32.244	25.938	.0185	1437.57
10.0	-1.719	32.244	25.939	.0206	1437.58
11.0	-1.719	32.246	25.940	.0226	1437.60
12.0	-1.720	32.246	25.940	.0247	1437.61
13.0	-1.719	32.246	25.940	.0267	1437.63
14.0	-1.720	32.248	25.942	.0288	1437.65
15.0	-1.719	32.249	25.943	.0308	1437.67
16.0	-1.719	32.250	25.943	.0329	1437.69
17.0	-1.718	32.253	25.946	.0349	1437.71
18.0	-1.717	32.257	25.949	.0370	1437.74
19.0	-1.717	32.256	25.948	.0390	1437.76
20.0	-1.715	32.262	25.953	.0410	1437.79
21.0	-1.714	32.261	25.953	.0431	1437.81
22.0	-1.707	32.271	25.960	.0451	1437.87
23.0	-1.707	32.276	25.964	.0472	1437.90
24.0	-1.705	32.275	25.964	.0492	1437.92
25.0	-1.706	32.276	25.964	.0512	1437.93
27.5	-1.703	32.280	25.967	.0563	1437.99
30.0	-1.698	32.292	25.977	.0613	1438.07
32.5	-1.686	32.324	26.003	.0663	1438.22
35.0	-1.662	32.489	26.136	.0712	1438.61
37.5	-1.652	32.520	26.162	.0758	1438.74
40.0	-1.620	32.647	26.264	.0803	1439.11
42.5	-1.619	32.654	26.269	.0846	1439.16
45.0	-1.614	32.675	26.286	.0890	1439.26
47.5	-1.609	32.694	26.302	.0933	1439.35
50.0	-1.604	32.713	26.317	.0975	1439.44
55.0	-1.580	32.791	26.380	.1056	1439.75
60.0	-1.575	32.807	26.393	.1139	1439.87
65.0	-1.572	32.819	26.402	.1220	1439.99
70.0	-1.569	32.827	26.409	.1300	1440.10
75.0	-1.559	32.857	26.433	.1380	1440.27
80.0	-1.554	32.874	26.446	.1458	1440.40
85.0	-1.554	32.879	26.450	.1537	1440.49
87.0	-1.553	32.879	26.450	.1568	1440.52
88.0	-1.551	32.882	26.453	.1584	1440.55
89.0	-1.552	32.886	26.456	.1599	1440.57
90.0	-1.551	32.885	26.456	.1615	1440.59
91.0	-1.550	32.887	26.457	.1630	1440.61

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
92.0	-1.548	32.893	26.462	.1646	1440.65
93.0	-1.547	32.896	26.464	.1661	1440.67
94.0	-1.546	32.899	26.467	.1677	1440.70
95.0	-1.546	32.903	26.470	.1692	1440.72
96.0	-1.544	32.905	26.472	.1708	1440.75
97.0	-1.543	32.907	26.473	.1723	1440.77
98.0	-1.541	32.911	26.476	.1739	1440.80
99.0	-1.541	32.911	26.476	.1754	1440.82
100.0	-1.540	32.918	26.482	.1769	1440.85
101.0	-1.538	32.921	26.484	.1785	1440.88
102.0	-1.537	32.923	26.486	.1800	1440.90
103.0	-1.538	32.923	26.486	.1815	1440.92
104.0	-1.537	32.923	26.486	.1830	1440.94
105.0	-1.537	32.925	26.487	.1846	1440.95
106.0	-1.537	32.924	26.487	.1861	1440.97
107.0	-1.538	32.925	26.488	.1876	1440.99
108.0	-1.537	32.925	26.487	.1891	1441.00
109.0	-1.537	32.924	26.487	.1907	1441.02
109.5	-1.537	32.924	26.486	.1914	1441.03


SALINITY
30
31
32
33
34
35
EXP 4381 73-11.6 N 116-15.0 W
DATE 240682 GMT 245
STN RCM05 DEPTH 112 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

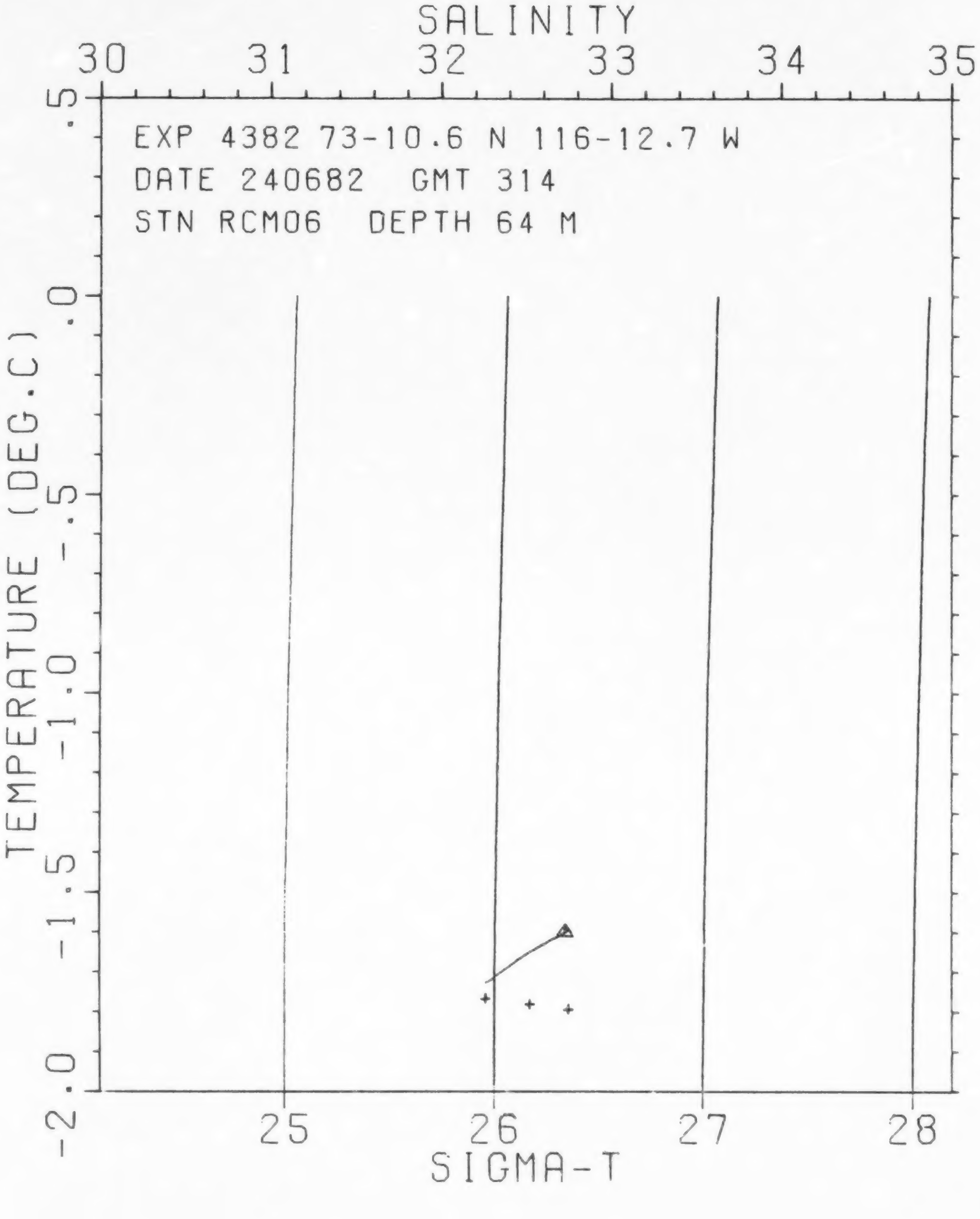


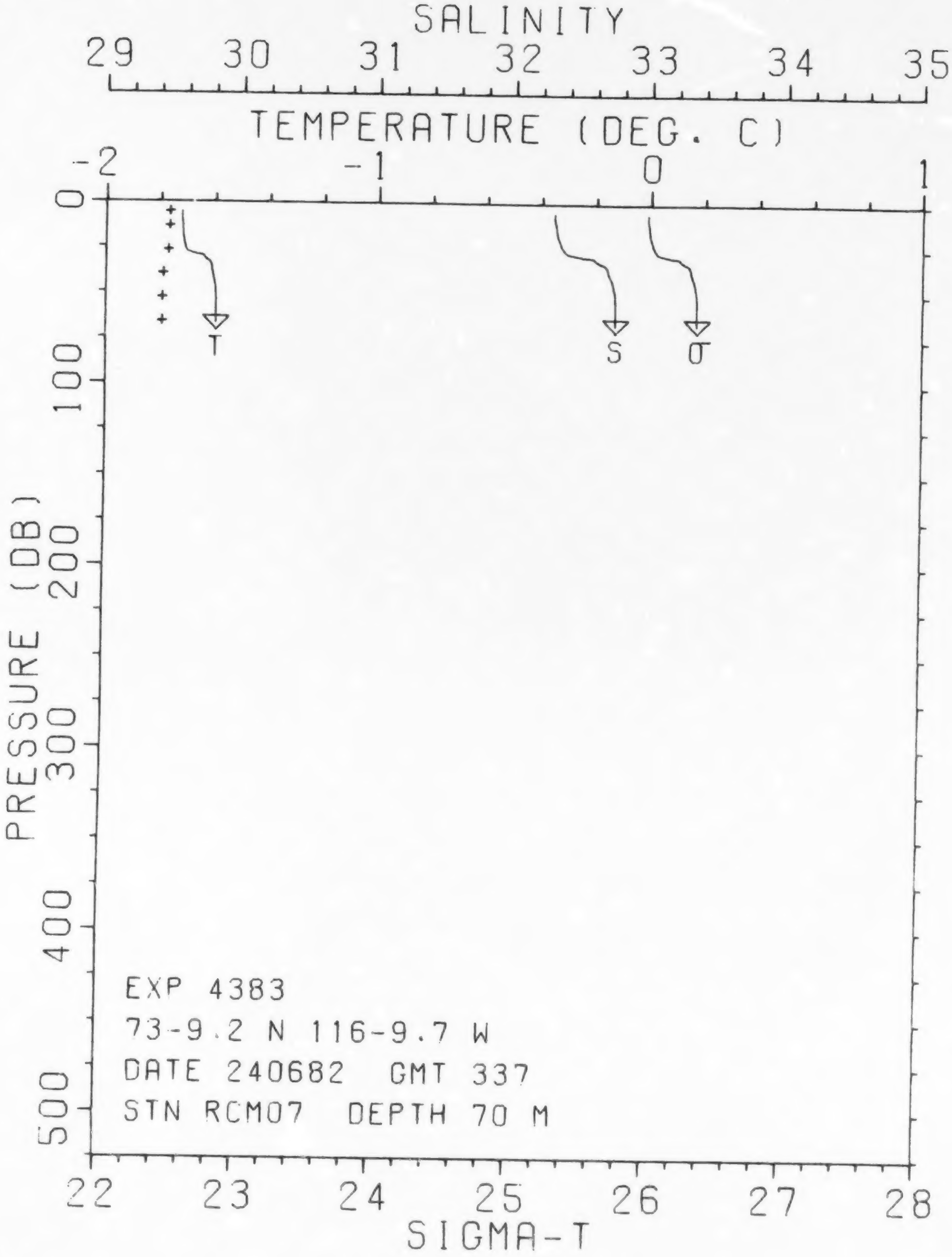
EXP 4382
73-10.6 N 116-12.7 W
DATE 240682 GMT 314
STN RCM06 DEPTH 64 M

CRUISE 015-82-022 WESTERN NORTH-WEST PASSAGE
STATION RCM06 EXPERIMENT NO. 4382 DATE 240682 GMT 314
LAT. 73-10.6 N LONG. 116-12.7 W
WATER DEPTH 70.0 M ICE THICKNESS *** M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.6	-1.725	32.265	25.956	.0114	1437.51
6.0	-1.725	32.266	25.956	.0122	1437.52
7.0	-1.725	32.264	25.955	.0143	1437.53
8.0	-1.726	32.266	25.956	.0163	1437.55
9.0	-1.725	32.268	25.958	.0183	1437.57
10.0	-1.725	32.268	25.959	.0204	1437.59
11.0	-1.725	32.268	25.958	.0224	1437.60
12.0	-1.724	32.272	25.961	.0244	1437.63
13.0	-1.724	32.274	25.963	.0265	1437.65
14.0	-1.724	32.275	25.964	.0285	1437.67
15.0	-1.725	32.279	25.967	.0305	1437.68
16.0	-1.725	32.281	25.969	.0326	1437.70
17.0	-1.724	32.282	25.969	.0346	1437.73
18.0	-1.724	32.284	25.972	.0366	1437.75
19.0	-1.724	32.286	25.973	.0386	1437.77
20.0	-1.723	32.288	25.975	.0407	1437.79
21.0	-1.722	32.290	25.976	.0427	1437.81
22.0	-1.721	32.290	25.976	.0447	1437.83
23.0	-1.721	32.293	25.978	.0467	1437.85
24.0	-1.720	32.294	25.980	.0487	1437.88
25.0	-1.720	32.297	25.982	.0507	1437.90
27.5	-1.718	32.302	25.986	.0558	1437.95
30.0	-1.712	32.324	26.003	.0606	1438.06
32.5	-1.644	32.550	26.185	.0656	1438.74
35.0	-1.614	32.679	26.289	.0700	1439.10
37.5	-1.609	32.699	26.306	.0742	1439.19
40.0	-1.607	32.709	26.314	.0785	1439.26
41.0	-1.606	32.710	26.315	.0802	1439.28
42.0	-1.606	32.712	26.316	.0819	1439.30
43.0	-1.606	32.714	26.318	.0836	1439.32
44.0	-1.605	32.716	26.319	.0853	1439.34
45.0	-1.606	32.719	26.322	.0869	1439.36
46.0	-1.604	32.723	26.325	.0886	1439.39
47.0	-1.601	32.728	26.329	.0903	1439.43
48.0	-1.599	32.734	26.334	.0920	1439.46
49.0	-1.598	32.734	26.334	.0937	1439.48
50.0	-1.600	32.737	26.336	.0953	1439.49
51.0	-1.599	32.738	26.338	.0970	1439.52
52.0	-1.599	32.741	26.339	.0987	1439.54
53.0	-1.597	32.742	26.340	.1004	1439.57
54.0	-1.597	32.744	26.342	.1020	1439.58
55.0	-1.596	32.747	26.344	.1037	1439.61
56.0	-1.594	32.752	26.349	.1053	1439.64

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
57.0	-1.594	32.754	26.350	.1070	1439.66
58.0	-1.594	32.754	26.350	.1087	1439.68
59.0	-1.593	32.757	26.353	.1103	1439.70
60.0	-1.593	32.756	26.352	.1120	1439.72
61.0	-1.593	32.757	26.353	.1136	1439.73
61.9	-1.593	32.756	26.352	.1151	1439.75

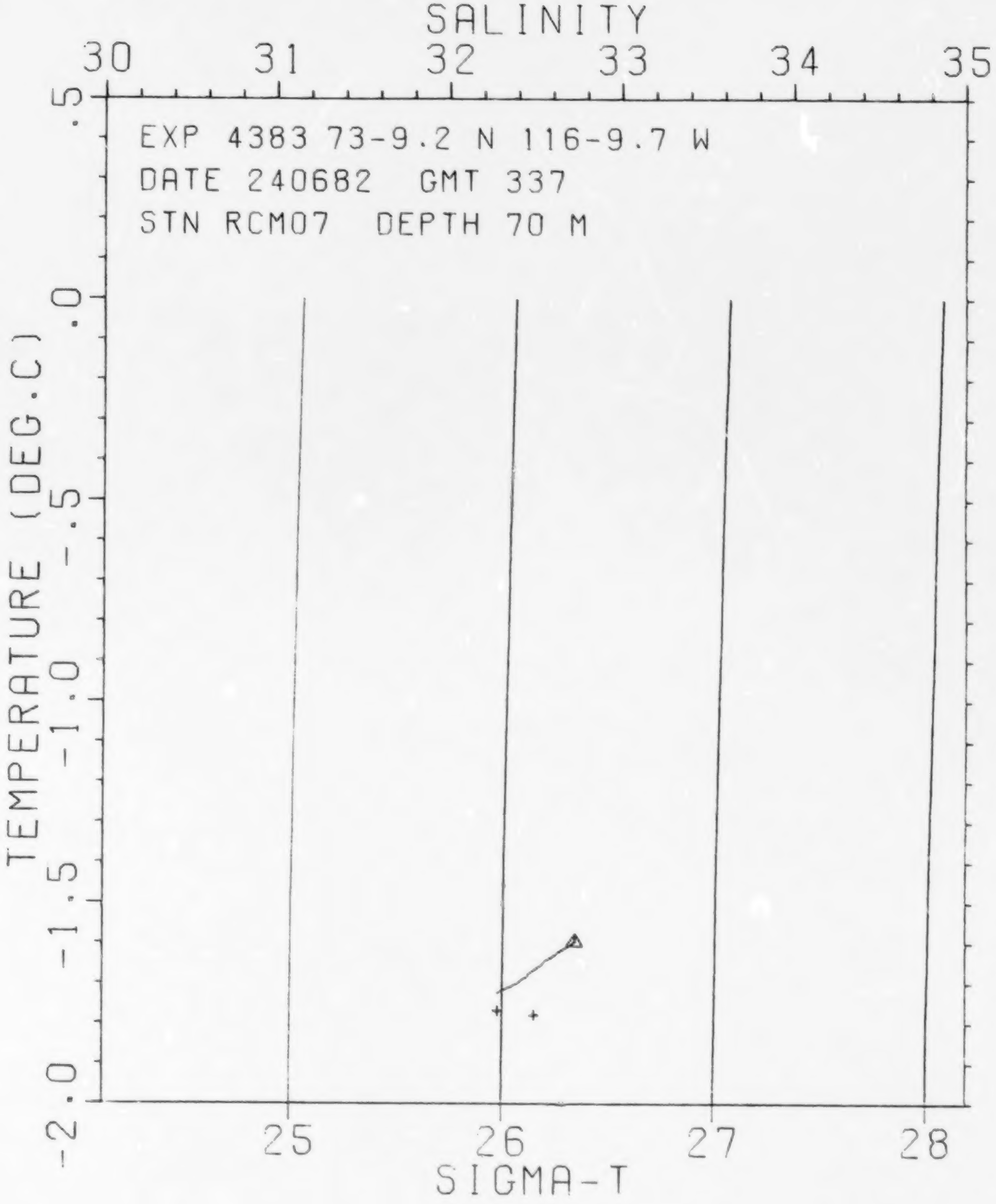

SALINITY
30
31
32
33
34
35
EXP 4382 73-10.6 N 116-12.7 W
DATE 240682 GMT 314
STN RCM06 DEPTH 64 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T

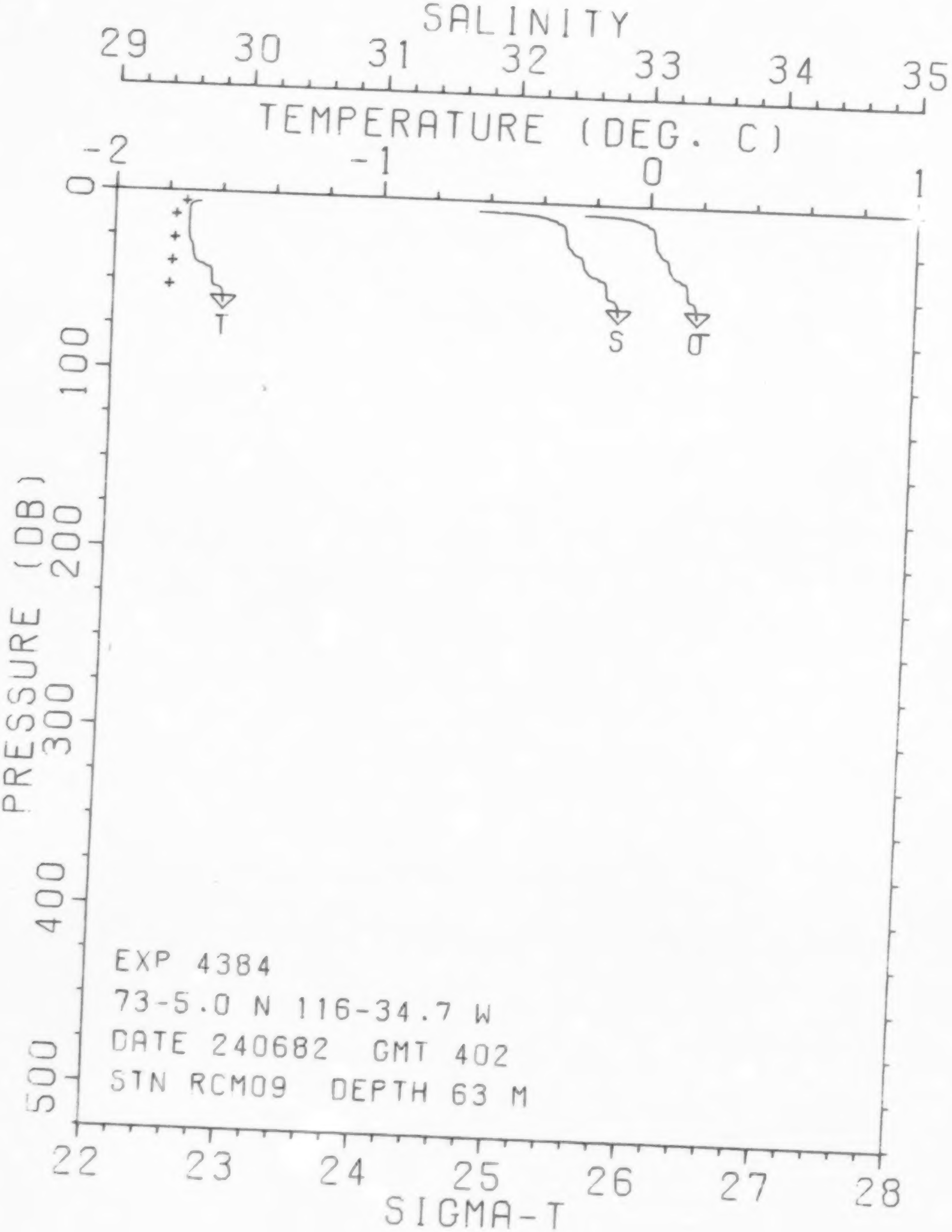

SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
PRESSURE (DB)
0
100
200
300
400
500
T
S
σ
EXP 4383
73-9.2 N 116-9.7 W
DATE 240682 GMT 337
STN RCM07 DEPTH 70 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-022 WESTERN NORTH-WEST PASSAGE
STATION RCMU7 EXPERIMENT NO. 4383 DATE 240682 GMT 337
LAT. 73-09.2 N LONG. 116-09.7 W
WATER DEPTH 76.0 M ICE THICKNESS *** M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.4	-1.723	32.292	25.977	.0109	1437.55
6.0	-1.723	32.293	25.978	.0121	1437.56
7.0	-1.724	32.293	25.978	.0141	1437.58
8.0	-1.723	32.292	25.978	.0161	1437.60
9.0	-1.723	32.294	25.980	.0182	1437.62
10.0	-1.723	32.296	25.981	.0202	1437.63
11.0	-1.721	32.298	25.983	.0222	1437.66
12.0	-1.721	32.304	25.987	.0242	1437.69
13.0	-1.720	32.305	25.988	.0262	1437.71
14.0	-1.720	32.308	25.991	.0282	1437.73
15.0	-1.720	32.310	25.993	.0302	1437.75
16.0	-1.720	32.312	25.993	.0322	1437.77
17.0	-1.719	32.314	25.996	.0342	1437.80
18.0	-1.719	32.316	25.997	.0362	1437.81
19.0	-1.718	32.319	26.000	.0382	1437.84
20.0	-1.717	32.328	26.007	.0402	1437.87
21.0	-1.715	32.334	26.012	.0422	1437.91
22.0	-1.714	32.336	26.013	.0442	1437.93
23.0	-1.713	32.342	26.018	.0462	1437.96
24.0	-1.712	32.346	26.021	.0481	1437.99
25.0	-1.709	32.357	26.030	.0501	1438.03
27.5	-1.704	32.386	26.053	.0550	1438.14
30.0	-1.639	32.586	26.214	.0597	1438.77
32.5	-1.630	32.619	26.242	.0641	1438.90
35.0	-1.612	32.681	26.292	.0685	1439.11
37.5	-1.612	32.692	26.300	.0728	1439.17
40.0	-1.608	32.701	26.307	.0770	1439.24
42.5	-1.604	32.719	26.322	.0613	1439.33
45.0	-1.602	32.725	26.326	.0855	1439.39
46.0	-1.600	32.731	26.331	.0872	1439.42
47.0	-1.599	32.731	26.332	.0888	1439.44
48.0	-1.598	32.737	26.337	.0905	1439.47
49.0	-1.598	32.741	26.339	.0922	1439.49
50.0	-1.597	32.739	26.338	.0939	1439.51
51.0	-1.597	32.742	26.340	.0955	1439.53
52.0	-1.597	32.741	26.340	.0972	1439.55
53.0	-1.597	32.741	26.340	.0989	1439.57
54.0	-1.596	32.743	26.341	.1005	1439.59
55.0	-1.596	32.743	26.341	.1022	1439.60
56.0	-1.595	32.743	26.342	.1039	1439.62
57.0	-1.597	32.746	26.343	.1055	1439.64
58.0	-1.596	32.745	26.342	.1072	1439.65
59.0	-1.596	32.744	26.342	.1089	1439.67

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
60.0	-1.596	32.744	26.342	.1105	1439.69
61.0	-1.595	32.743	26.342	.1122	1439.71
62.0	-1.595	32.746	26.343	.1139	1439.72
63.0	-1.596	32.745	26.343	.1155	1439.74
64.0	-1.595	32.744	26.342	.1172	1439.76
65.0	-1.595	32.744	26.342	.1189	1439.77
66.0	-1.596	32.745	26.343	.1205	1439.79
67.0	-1.595	32.745	26.343	.1222	1439.81
67.3	-1.596	32.745	26.343	.1228	1439.81

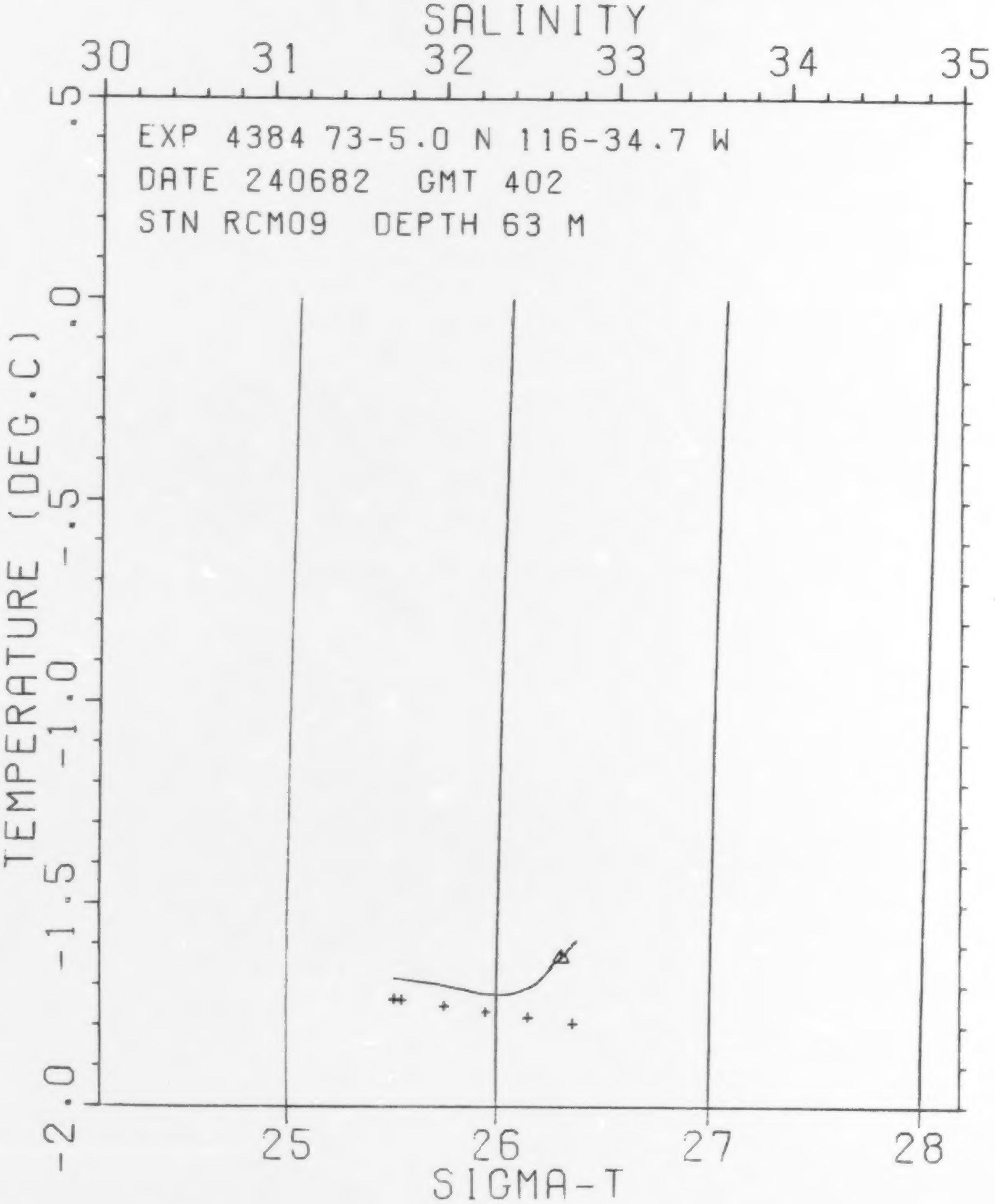

SALINITY
30
31
32
33
34
35
EXP 4383 73-9.2 N 116-9.7 W
DATE 240682 GMT 337
STN RCM07 DEPTH 70 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T


SALINITY
29
30
31
32
33
34
35
TEMPERATURE (DEG. C)
-2
-1
0
1
0
100
200
300
400
500
PRESSURE (DB)
T
S
σ
EXP 4384
73-5.0 N 116-34.7 W
DATE 240682 GMT 402
STN RCM09 DEPTH 63 M
22
23
24
25
26
27
28
SIGMA-T

CRUISE 015-82-022 WESTERN NORTH-WEST PASSAGE
STATION PCM09 EXPERIMENT NO. 4384 DATE 240682 GMT 402
LAT. 73-05.0 N LONG. 116-34.7 W
WATER DEPTH 66.0 M ICE THICKNESS *** M

PRESSURE (DBARS)	TEMP (DEG.C)	SALINITY	SIGMAT	DHA (DYN M)	SOUND (M/S)
5.8	-1.683	31.716	25.509	.0187	1436.94
6.0	-1.694	31.881	25.643	.0193	1437.13
7.0	-1.712	32.132	25.847	.0215	1437.41
8.0	-1.720	32.211	25.911	.0236	1437.49
9.0	-1.722	32.248	25.942	.0256	1437.55
10.0	-1.723	32.304	25.987	.0277	1437.65
11.0	-1.723	32.312	25.994	.0297	1437.67
12.0	-1.723	32.354	26.028	.0317	1437.75
13.0	-1.723	32.366	26.038	.0336	1437.78
14.0	-1.724	32.370	26.041	.0356	1437.80
15.0	-1.723	32.373	26.043	.0375	1437.83
16.0	-1.723	32.376	26.046	.0395	1437.85
17.0	-1.723	32.378	26.047	.0414	1437.86
18.0	-1.723	32.379	26.049	.0434	1437.88
19.0	-1.723	32.380	26.049	.0453	1437.90
20.0	-1.723	32.380	26.049	.0473	1437.92
21.0	-1.723	32.382	26.051	.0492	1437.94
22.0	-1.722	32.386	26.054	.0512	1437.96
23.0	-1.723	32.391	26.058	.0531	1437.98
24.0	-1.722	32.394	26.061	.0551	1438.01
25.0	-1.722	32.403	26.068	.0570	1438.04
27.5	-1.718	32.434	26.093	.0616	1438.14
30.0	-1.707	32.500	26.146	.0665	1438.33
32.5	-1.704	32.510	26.155	.0711	1438.40
35.0	-1.703	32.515	26.158	.0757	1438.45
37.5	-1.698	32.538	26.177	.0803	1438.54
40.0	-1.686	32.572	26.204	.0849	1438.69
41.0	-1.668	32.612	26.236	.0867	1438.85
42.0	-1.653	32.642	26.261	.0884	1438.98
43.0	-1.635	32.674	26.286	.0902	1439.12
44.0	-1.633	32.684	26.294	.0919	1439.16
45.0	-1.633	32.684	26.294	.0936	1439.18
46.0	-1.633	32.688	26.297	.0953	1439.20
47.0	-1.632	32.689	26.298	.0970	1439.23
48.0	-1.631	32.688	26.298	.0987	1439.24
49.0	-1.633	32.692	26.300	.1004	1439.26
50.0	-1.632	32.692	26.301	.1021	1439.28
51.0	-1.632	32.690	26.299	.1038	1439.29
52.0	-1.630	32.695	26.303	.1056	1439.33
53.0	-1.625	32.708	26.313	.1073	1439.39
54.0	-1.599	32.760	26.355	.1089	1439.60
55.0	-1.596	32.762	26.357	.1106	1439.63
56.0	-1.593	32.764	26.363	.1122	1439.67

```
PRESSURE     TEMP     SALINITY   SIGMAT      DHA       SOUND
 (DBARS)   (DEG.C)                         (DYN M)     (M/S)

   57.0    -1.593     32.774     26.366     .1139     1439.70
   58.0    -1.590     32.778     26.369     .1155     1439.73
   59.0    -1.590     32.776     26.368     .1172     1439.74
   60.0    -1.589     32.779     26.370     .1188     1439.77
   61.0    -1.589     32.780     26.371     .1205     1439.79
   62.0    -1.589     32.782     26.373     .1221     1439.81
   62.5    -1.589     32.783     26.373     .1228     1439.81

@FIN
```


SALINITY
30
31
32
33
34
35
EXP 4384 73-5.0 N 116-34.7 W
DATE 240682 GMT 402
STN RCM09 DEPTH 63 M
TEMPERATURE (DEG.C)
.5
.0
-.5
-1.0
-1.5
-2.0
25
26
27
28
SIGMA-T